

AUTHORIZED FEDERAL SUPPLY SERVICE
INFORMATION TECHNOLOGY SCHEDULE PRICELIST
GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY
EQUIPMENT, SOFTWARE AND SERVICES

Special Item No. 132-50 Training Courses

Special Item No. 132-51 Information Technology Professional Services

Special Item No. 132-8 Equipment Sales

Note 1: All non-professional labor categories must be incidental to and used solely to support hardware, software and/or professional services, and cannot be purchased separately.

Note 2: Offerors and Agencies are advised that the Group 70 – Information Technology Schedule is not to be used as a means to procure services which properly fall under the Brooks Act. These services include, but are not limited to, architectural, engineering, mapping, cartographic production, remote sensing, geographic information systems, and related services. FAR 36.6 distinguishes between mapping services of an A/E nature and mapping services which are not connected nor incidental to the traditionally accepted A/E Services.

Note 3: This solicitation is not intended to solicit for reselling of IT Professional Services, except for the provision of implementation, maintenance, integration, or training services in direct support of a product. Under such circumstances the services must be performed by the publisher or manufacturer or one of their authorized agents.

SIN 132-8 – SALE OF HARDWARE

SIN 132-50 - TRAINING COURSES FOR INFORMATION TECHNOLOGY EQUIPMENT AND SOFTWARE-(FPDS Code U012)

SIN 132-51 - INFORMATION TECHNOLOGY (IT) PROFESSIONAL SERVICES

FPDS Code D302	IT Systems Development Services
FPDS Code D306	IT Systems Analysis Services
FPDS Code D307	Automated Information Systems Design and Integration Services
FPDS Code D308	Programming Services
FPDS Code D308	Millennium Conversion Services (Y2K)
FPDS Code D310	IT Backup and Security Services
FPDS Code D311	IT Data Conversion Services
FPDS Code D316	IT Network Management Services
FPDS Code D399	Other Information Technology Services, Not Elsewhere Classified

Integrated Technology Solutions Inc.

6325 Woodside Court, Suite 130

Columbia, MD 21046

Phone: (443) 430-9014 Fax (443) 430-9020

<http://www.itsi-inc.com>

Contract Number: GS35-F0026M

Period Covered by Contract: October 19, 2006-October 18, 2011
General Services Administration
Federal Supply Service

Pricelist current through Modification #PA 0002, dated 08/08/2006

Products and ordering information in this Authorized FSS Information Technology Schedule Pricelist are also available on the GSA Advantage! System. Agencies can browse GSA Advantage! by accessing the Federal Supply Service's Home Page via the Internet at <http://www.fss.gsa.gov/>

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**INFORMATION FOR ORDERING OFFICES
APPLICABLE TO ALL SPECIAL ITEM NUMBERS**

SPECIAL NOTICE TO AGENCIES: Small Business Participation

SBA strongly supports the participation of small business concerns in the Federal Supply Schedules Program. To enhance Small Business Participation SBA policy allows agencies to include in their procurement base and goals, the dollar value of orders expected to be placed against the Federal Supply Schedules, and to report accomplishments against these goals.

For orders exceeding the micropurchase threshold, FAR 8.404 requires agencies to consider the catalogs/pricelists of at least three schedule contractors or consider reasonably available information by using the GSA Advantage!™ on-line shopping service (www.fss.gsa.gov). The catalogs/pricelists, GSA Advantage!™ and the Federal Supply Service Home Page (www.fss.gsa.gov) contain information on a broad array of products and services offered by small business concerns.

This information should be used as a tool to assist ordering activities in meeting or exceeding established small business goals. It should also be used as a tool to assist in including small, small disadvantaged, and women-owned small businesses among those considered when selecting pricelists for a best value determination.

For orders exceeding the micropurchase threshold, customers are to give preference to small business concerns when two or more items at the same delivered price will satisfy their requirement.

1. Geographic Scope of Contract:

The geographic scope of this contract is the 48 contiguous states and the District of Columbia. In addition to Alaska, Hawaii, and the Commonwealth of Puerto Rico. Other overseas locations may be negotiated on a per contract basis.

2. Contractor's Ordering Address and Payment Information:

Please send or fax orders, and remit payment to :

Integrated Technology Solutions Inc.

8775 Cloudleap Court, Suite 200

Columbia, MD 21045

Phone: (410) 772-3900 Fax: (410) 772-7374

Contractors are required to accept the Government purchase card for payments equal to or less than the micro-purchase threshold for oral or written delivery orders. Government purchase cards **will** be acceptable for payment above the micro-purchase threshold. In addition, bank account information for wire transfer payments will be shown on the invoice.

The following telephone number(s) can be used by ordering agencies to obtain technical and/or ordering assistance:

(410) 772-3900

3. LIABILITY FOR INJURY OR DAMAGE

The Contractor shall not be liable for any injury to Government personnel or damage to Government property arising from the use of equipment maintained by the Contractor, unless such injury or damage is due to the fault or negligence of the Contractor.

4. Statistical Data for Government Ordering Office Completion of Standard Form 279:

Block 9: **B** Order/Modification Under Federal Schedule

Block 16: Data Universal Numbering System (DUNS) Number: 00-897-9320

Block 30: Type of Contractor – Other Small Business

- A. Small Disadvantaged Business
- B. Other Small Business
- C. Large Business
- G. Other Nonprofit Organization
- L. Foreign Contractor

Block 31: Woman-Owned Small Business - Yes

Block 36: Contractor's Taxpayer Identification Number (TIN): 52-209-5797

4a. CAGE Code: 1K5B2

4b. Contractor **has** registered with the Central Contractor Registration Database.

5. FOB Destination

6. DELIVERY SCHEDULE

a. TIME OF DELIVERY: The Contractor shall deliver to destination within the number of calendar days after receipt of order (ARO), as set forth below:

ITEMS OR GROUP OF NORMAL ITEMS(Special Item No. DELIVERY or Nomenclature)	GOVERNMENT'S STATED DELIVERY TIME (DAYS ARO)	CONTRACTOR'S COMMERCIAL TIME
132-50 <u>and</u>	30	<u>As agreed upon by ITSI customer</u>
132-51 <u>and</u>	30	<u>As agreed upon by ITSI Customer</u>
<u>132-08</u>	<u>14 days or based on availability from the manufacture</u>	
<u>Expedited delivery of in stock items is offered at commercially available rates and times.</u>		

b. URGENT REQUIREMENTS: When the Federal Supply Schedule contract delivery period does not meet the bona fide urgent delivery requirements of an ordering agency, agencies are encouraged, if time permits, to contact the Contractor for the purpose of obtaining accelerated delivery. The Contractor shall reply to the inquiry within 3 workdays after receipt. (Telephonic replies shall be confirmed by the Contractor in writing.) If the Contractor offers an accelerated delivery time acceptable to the ordering agency, any order(s) placed pursuant to the agreed upon accelerated delivery time frame shall be delivered within this shorter delivery time and in accordance with all other terms and conditions of the contract.

7. Discounts: Prices shown are NET Prices; Basic Discounts have been deducted.

- a. Prompt Payment: **None** NET 30 days from receipt of invoice or date of acceptance, whichever is later..
- b. Quantity- **NONE**
- c. Dollar Volume- **NONE**

- d. Government Educational Institutions

Government Educational Institutions are offered the same discounts as all other Government customers.

- e. Other- **NONE**

8. Trade Agreements Act of 1979, as amended:

All items are U.S. made end products, designated country end products, Caribbean Basin country end products, Canadian end products, or Mexican end products as defined in the Trade Agreements Act of 1979, as amended.

9. Statement Concerning Availability of Export Packing: **NONE**

10. Small Requirements: The minimum dollar value of orders to be issued is \$100.

11. Maximum Order (All dollar amounts are exclusive of any discount for prompt payment.)

- a. Special Item Number 132-50 - Training Courses-\$25,000
- b. Special Item Number 132-51 - Information Technology (IT) Professional Services \$500,000

12. USE OF FEDERAL SUPPLY SERVICE INFORMATION TECHNOLOGY SCHEDULE CONTRACTS. In accordance with FAR 8.404:

[NOTE: Special ordering procedures have been established for Special Item Numbers (SIN) 132-51 IT Professional Services; refer to the terms and conditions for that SIN.]

Orders placed pursuant to a Multiple Award Schedule (MAS), using the procedures in FAR 8.404, are considered to be issued pursuant to full and open competition. Therefore, when placing orders under Federal Supply Schedules, ordering offices need not seek further competition, synopsise the requirement, make a separate determination of fair and reasonable pricing, or consider small business set-asides in accordance with subpart 19.5. GSA has already determined the prices of items under schedule contracts to be fair and reasonable. By placing an order against a schedule using the procedures outlined below, the ordering office has concluded that the order represents the best value and results in the lowest overall cost alternative (considering price, special features, administrative costs, etc.) to meet the Government's needs.

- a. Orders placed at or below the micro-purchase threshold. Ordering offices can place orders at or below the micro-purchase threshold with any Federal Supply Schedule Contractor.
- b. Orders exceeding the micro-purchase threshold but not exceeding the maximum order threshold. Orders should be placed with the Schedule Contractor that can provide the supply or service that represents the best value. Before placing an order, ordering offices should consider reasonably available information about the supply or service offered under MAS contracts by using the "GSA Advantage!" on-line shopping service, or by reviewing the catalogs/pricelists of at least three Schedule Contractors and selecting the delivery and other options available under the schedule that meets the agency's needs. In selecting the supply or service representing the best value, the ordering office may consider--

- (1) Special features of the supply or service that are required in effective program performance and that are not provided by a comparable supply or service;
- (2) Trade-in considerations;
- (3) Probable life of the item selected as compared with that of a comparable item;
- (4) Warranty considerations;
- (5) Maintenance availability;
- (6) Past performance; and
- (7) Environmental and energy efficiency considerations.

c. Orders exceeding the maximum order threshold. Each schedule contract has an established maximum order threshold. This threshold represents the point where it is advantageous for the ordering office to seek a price reduction. In addition to following the procedures in paragraph b, above, and before placing an order that exceeds the maximum order threshold, ordering offices shall--

Review additional Schedule Contractors'

- (1) catalogs/pricelists or use the "GSA Advantage!" on-line shopping service;
- (2) Based upon the initial evaluation, generally seek price reductions from the Schedule Contractor(s) appearing to provide the best value (considering price and other factors); and
- (3) After price reductions have been sought, place the order with the Schedule Contractor that provides the best value and results in the lowest overall cost alternative. If further price reductions are not offered, an order may still be placed, if the ordering office determines that it is appropriate.

NOTE: For orders exceeding the maximum order threshold, the Contractor may:

- (1) Offer a new lower price for this requirement (the Price Reductions clause is not applicable to orders placed over the maximum order in FAR 52.216-19 Order Limitations);
- (2) Offer the lowest price available under the contract; or
- (3) Decline the order (orders must be returned in accordance with FAR 52.216-19).

d. Blanket purchase agreements (BPAs). The establishment of Federal Supply Schedule BPAs is permitted when following the ordering procedures in FAR 8.404. All schedule contracts contain BPA provisions. Ordering offices may use BPAs to establish accounts with Contractors to fill recurring requirements. BPAs should address the frequency of ordering and invoicing, discounts, and delivery locations and times.

e. Price reductions. In addition to the circumstances outlined in paragraph c, above, there may be instances when ordering offices will find it advantageous to request a price reduction. For example, when the ordering office finds a schedule supply or service elsewhere at a lower price or when a BPA is being established to fill recurring requirements, requesting a price reduction could be advantageous. The potential volume of orders under these agreements, regardless of the size of the individual order, may offer the ordering office the opportunity to secure greater discounts. Schedule Contractors are not required to pass on to all schedule users a price reduction extended only to an individual agency for a specific order.

f. Small business. For orders exceeding the micro-purchase threshold, ordering offices should give preference to the items of small business concerns when two or more items at the same delivered price will satisfy the requirement.

g. Documentation. Orders should be documented, at a minimum, by identifying the Contractor the item was purchased from, the item purchased, and the amount paid. If an agency requirement in excess of the micro-purchase threshold is defined so as to require a particular brand name, product, or feature of a product peculiar to one manufacturer, thereby precluding consideration of a product manufactured by another company, the ordering office shall include an explanation in the file as to why the particular brand name, product, or feature is essential to satisfy the agency's needs.

13. **FEDERAL INFORMATION TECHNOLOGY/TELECOMMUNICATION STANDARDS REQUIREMENTS:** Federal departments and agencies acquiring products from this Schedule must comply with the provisions of the Federal Standards Program, as appropriate (reference: NIST Federal Standards Index). Inquiries to determine whether or not specific products listed herein comply with Federal Information Processing Standards (FIPS) or Federal Telecommunication Standards (FED-STDS), which are cited by ordering offices, shall be responded to promptly by the Contractor.

13.1 **FEDERAL INFORMATION PROCESSING STANDARDS PUBLICATIONS (FIPS PUBS):** Information Technology products under this Schedule that do not conform to Federal Information Processing Standards (FIPS) should not be acquired unless a waiver has been granted in accordance with the applicable "FIPS Publication." Federal Information Processing Standards Publications (FIPS PUBS) are issued by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST), pursuant to National Security Act. Information concerning their availability and applicability should be obtained from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, Virginia 22161. FIPS PUBS include voluntary standards when these are adopted for Federal use. Individual orders for FIPS PUBS should be referred to the NTIS Sales Office, and orders for subscription service should be referred to the NTIS Subscription Officer, both at the above address, or telephone number (703) 487-4650.

13.2 **FEDERAL TELECOMMUNICATION STANDARDS (FED-STDS):** Telecommunication products under this Schedule that do not conform to Federal Telecommunication Standards (FED-STDS) should not be acquired unless a waiver has been granted in accordance with the applicable "FED-STD." Federal Telecommunication Standards are issued by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST), pursuant to National Security Act. Ordering information and information concerning the availability of FED-STDS should be obtained from the GSA, Federal Supply Service, Specification Section, 470 East L'Enfant Plaza, Suite 8100, SW, Washington, DC 20407, telephone number (202)619-8925. Please include a self-addressed mailing label when requesting information by mail. Information concerning their applicability can be obtained by writing or calling the U.S. Department of Commerce, National Institute of Standards and Technology, Gaithersburg, MD 20899, telephone number (301)975-2833.

14. **SECURITY REQUIREMENTS.** In the event security requirements are necessary, the ordering activities may incorporate, in their delivery orders, a security clause in accordance with current laws, regulations, and individual agency policy; however, the burden of administering the security requirements shall be with the ordering agency. If any costs are incurred as a result of the inclusion of security requirements, such costs will not exceed ten percent (10%) or \$100,000, of the total dollar value of the order, whichever is less.

15. **CONTRACT ADMINISTRATION FOR ORDERING OFFICES:** Any ordering office, with respect to any one or more delivery orders placed by it under this contract, may exercise the same rights of termination as might the GSA Contracting Officer under provisions of FAR 52.212-4, paragraphs (l) Termination for the Government's convenience, and (m) Termination for Cause (See C.1.)

16. **GSA Advantage!**

GSA Advantage! is an on-line, interactive electronic information and ordering system that provides on-line access to vendors' schedule prices with ordering information. GSA Advantage! will allow the user to perform various searches across all contracts including, but not limited to:

- (1) Manufacturer;
- (2) Manufacturer's Part Number; and
- (3) Product categories.

Agencies can browse GSA Advantage! by accessing the Internet World Wide Web utilizing a browser (ex.: NetScape). The Internet address is <http://www.fss.gsa.gov/>.

17. PURCHASE OF OPEN MARKET ITEMS

NOTE: Open Market Items are also known as incidental items, noncontract items, non-Schedule items, and items not on the Federal Supply Schedule contract.

For administrative convenience, an ordering office contracting officer may add items not on the Federal Supply Multiple Award Schedule (MAS)—referred to as open market items—to a Federal Supply Schedule blanket purchase agreement (BPA) or an individual task or delivery order, **only if-**

- (1) All applicable acquisition regulations pertaining to the purchase of the items not on the Federal Supply Schedule have been followed (e.g., publicizing (Part 5), competition requirements (Part 6), acquisition of commercial items (Part 12), contracting methods (Part 13,14, and 15) and small business programs (Part 19));
- (2) The ordering office contracting officer has determined the price for the items not on the Federal Supply Schedule is fair and reasonable;
- (3) The items are clearly labeled on the order as items not on the Federal Supply Schedule; and
- (4) All clauses applicable to items not on the Federal Supply Schedule are included in the order.

18. CONTRACTOR COMMITMENTS, WARRANTIES AND REPRESENTATIONS

a. For the purpose of this contract, commitments, warranties and representations include, in addition to those agreed to for the entire schedule contract:

- (1) Time of delivery/installation quotations for individual orders;
- (2) Technical representations and/or warranties of products concerning performance, total system performance and/or configuration, physical, design and/or functional characteristics and capabilities of a product/equipment/ service/software package submitted in response to requirements which result in orders under this schedule contract.
- (3) Any representations and/or warranties concerning the products made in any literature, description, drawings and/or specifications furnished by the Contractor.

b. The above is not intended to incumpos items not currently covered by the GSA Schedule contract.

19. OVERSEAS ACTIVITIES

The terms and conditions of this contract shall apply to all orders for installation, maintenance and repair of equipment in areas listed in the pricelist outside the 48 contiguous states and the District of Columbia, except as indicated below:

Overseas activities may be negotiated.

Upon request of the Contractor, the Government may provide the Contractor with logistics support, as available, in accordance with all applicable Government regulations. Such Government support will be provided on a reimbursable basis, and will only be provided to the Contractor's technical personnel whose services are exclusively required for the fulfillment of the terms and conditions of this contract.

20. BLANKET PURCHASE AGREEMENTS (BPAs)

Federal Acquisition Regulation (FAR) 13.303-1(a) defines Blanket Purchase Agreements (BPAs) as "...a simplified method of filling anticipated repetitive needs for supplies or services by establishing 'charge accounts' with qualified sources of supply." The use of Blanket Purchase Agreements under the Federal Supply Schedule Program is authorized in accordance with FAR 13.303-2(c)(3), which reads, in part, as follows:

"BPAs may be established with Federal Supply Schedule Contractors, if not inconsistent with the terms of the applicable schedule contract."

Federal Supply Schedule contracts contain BPA provisions to enable schedule users to maximize their administrative and purchasing savings. This feature permits schedule users to set up "accounts" with Schedule Contractors to fill recurring requirements. These accounts establish a period for the BPA and generally address issues such as the frequency of ordering and invoicing, authorized callers, discounts, delivery locations and times. Agencies may qualify for the best quantity/volume discounts available under the contract, based on the potential volume of business that may be generated through such an agreement, regardless of the size of the individual orders. In addition, agencies may be able to secure a discount higher than that available in the contract based on the aggregate volume of business possible under a BPA. Finally, Contractors may be open to a progressive type of discounting where the discount would increase once the sales accumulated under the BPA reach certain prescribed levels. Use of a BPA may be particularly useful with the new Maximum Order feature. See the Suggested Format, contained in this Schedule Pricelist, for customers to consider when using this purchasing tool.

21. CONTRACTOR TEAM ARRANGEMENTS

Federal Supply Schedule Contractors may use "Contractor Team Arrangements" (see FAR 9.6) to provide solutions when responding to a customer agency requirements. The policy and procedures outlined in this part will provide more flexibility and allow innovative acquisition methods when using the Federal Supply Schedules. See the additional information regarding Contractor Team Arrangements in this Schedule Pricelist.

22. INSTALLATION, DEINSTALLATION, REINSTALLATION

The Davis-Bacon Act (40 U.S.C. 276a-276a-7) provides that contracts in excess of \$2,000 to which the United States or the District of Columbia is a party for construction, alteration, or repair (including painting and decorating) of public buildings or public works with the United States, shall contain a clause that no laborer or mechanic employed directly upon the site of the work shall received less than the prevailing wage rates as determined by the Secretary of Labor. The requirements of the Davis-Bacon Act do not apply if the construction work is incidental to the furnishing of supplies, equipment, or services. For example, the requirements do not apply to simple installation or alteration of a public building or public work that is incidental to furnishing supplies or equipment under a supply contract. However, if the construction, alteration or repair is segregable and exceeds \$2,000, then the requirements of the Davis-Bacon Act applies.

The requisitioning activity issuing the task order against this contract will be responsible for proper administration and enforcement of the Federal labor standards covered by the Davis-Bacon Act. The proper Davis-Bacon wage determination will be issued by the ordering activity at the time a request for quotations is made for applicable construction classified installation, deinstallation, and reinstallation services under SIN 132-8.

23. SECTION 508 COMPLIANCE.

If applicable, Section 508 compliance information on the supplies and services in this contract are available in Electronic and Information Technology (EIT) at the following: **Not Applicable**

ITSI- www.itsi-inc.com


The EIT standard can be found at: www.Section508.gov/.

24. PRIME CONTRACTOR ORDERING FROM FEDERAL SUPPLY SCHEDULES.

Prime Contractors (on cost reimbursement contracts) placing orders under Federal Supply Schedules, on behalf of a Federal Agency, shall follow the terms of the applicable schedule and authorization and include with each order –

- a) A copy of the authorization from the Agency with whom the contractor has the prime contract (unless a copy was previously furnished to the Federal Supply Schedule contractor); and
- b) The following statement:

This order is placed under written authorization from _____ dated _____. In the event of any inconsistency between the terms and conditions of this order and those of your Federal Supply Schedule contract, the latter will govern.



**TERMS AND CONDITIONS APPLICABLE TO HARDWARE SALES (SPECIAL
ITEM NUMBER 132-08)**

Products and ordering information in this Authorized FSS Information Technology Schedule. Prices can be found at the end of the pricelist provided starting on page 47 of this document Pricelist are also available on the GSA Advantage! System. Agencies can browse GSA Advantage! by accessing the Federal Supply Service's Home Page via the Internet at <http://www.fss.gsa.gov/>

SIN 132-8 PURCHASE OF EQUIPMENT

**FSC CLASS 5820 - RADIO AND TELEVISION COMMUNICATION EQUIPMENT,
EXCEPT AIRBORNE: Satellite Communications Equipment**

HARDWARE ITEMS PRICING MATRIX

Item Number	Model Number	Product Description	GSA Price
<i>THRANE & THRANE AERONAUTICAL HSD+ SYSTEM</i>			
1	405035A	4-ch Satellite Data Unit (SDU)	\$110,000.00
2	405035A-001	Configuration Module (CM)	\$1,200.00
3	405014A	High Power Amplifier (HPA)	\$57,500.00
<i>THRANE & THRANE AERONAUTICAL HSD+ SYSTEM OPTIONS</i>			
4	405035A-001	Configuration Module (CM)	\$1,200.00
5	405012A-THR	Diplexer/Low-Noise Amplifier (DLNA)	\$11,000.00
6	4050038A	High Speed Unit (HSU) 5th Channel	\$57,000.00
7	405038A-002	TX Coupler	\$1,200.00
8	405038A-003	RX Splitter	\$1,200.00
9	405620A-THR	Black 4-Wire Handset with Display	\$2,400.00
11	405622A-THR	Black 4-Wire Cradle	\$750.00
10	405621B-THR	Black 2-Wire Handset	\$2,400.00
12	405622B-THR	Black 2-Wire Cradle	\$750.00
13	405620A-THW	White 4 Wire Aero-I Handset with Display	\$2,400.00
14	405622A-THW	White 4 Wire Cradle	\$750.00
15	405621B-THW	White 2 Wire Handset	\$2,400.00
16	405622B-THW	White 2 Wire Cradle	\$750.00
17	500092-XXX	2.4 GHz Cordless (Wireless) Handset with Cradle	\$7,459.00
18	933800-24	Shadin Synchro to 429 Stand-alone A/C reference system	\$7,020.00
19	ASP-TTHSD-901	TT-5035A Installation Kit	\$2,325.00
20	ASP-TTHSD-902	TT-5014A Installation Kit	\$915.00
21	ASP-TTHSD-903	TT-5038A Installation Kit	\$915.00
22	ASP-TTSBU-900	TT-5040A Installation Kit	\$2,325.00
<i>THRANE & THRANE AERONAUTICAL with SWIFT BROADBAND UPGRADE</i>			

23		Aero HSD+ System	Thrane & Thrane Aero-HSD system Componets includes 405035A Satellite Data Unit (SDU) with 405035A-001 (CM), 405014A (HPA), 405038A/405040A (HSU/SBU), 405038A-002 (CPLR) and 405038A-03 (SPLTR)	Call for Pricing
<i>THRANE & THRANE AERONAUTICAL HSD128K</i>				
24		HSD128K System	Thrane & Thrane HSD128K system componets include 405035A-001 Satellite Data Unit (SDU) with FLEX Deoption 1, 405035A-001 (CM), 40514A (HPA), 405038A (HSU), 405038A-002 (CPLR) and 405038A-003 (SPLTR)	\$137,400.00
<i>THRANE & THRANE AERONAUTICAL HSD128K with SWIFTBROADBAND UPGRADE</i>				
25		HSD128K System	Thrane & Thrane HSD128K system componets include 405035A-001 Satellite Data Unit (SDU) with FLEX Deoption 1, 405035A-001 (CM), 40514A (HPA), 405038A/405040A (HSU/SBU), 405040A-001 (SCM), 405038A-002 (CPLR) and 405038A-003 (SPLTR)	Call for Pricing
<i>THRANE & THRANE AERONAUTICAL HSD & HSD128K SYSTEM OPTIONS</i>				
26		HSD-RORO	Roll-on, Roll-off (RoRo) Cabinet consisting of pallet, faceplate, trays, rack connectors & harnessing, coax cables, C/Bs, wiring, power switch etc.	\$26,650.00
<i>THRANE & THRANE 3000M Aero-M</i>				
27		403068A-THR	TT-3068A 1-ch SDU incl 12-ch NRS/GPS	\$18,600.00
28		403010K-THR	TT-3010K HPA/LNA	\$6,100.00
29	<i>THRANE & THRANE 3000 Aero-M Options</i>			
30		403068A-007	Secure Telephone Unit (STU) Code for Encryption	\$470.00
31		405621A-THR	TT-5621A Black 4-wire Aero-M with Handset	\$2,400.00
32		405622A-THR	TT-5622A Black 4-wire Cradle	\$750.00
33		405621B-THR	TT-5621B Black 2-wire Handset	\$2,400.00
34		405622B-THR	TT-5622B Black 2-wire Cradle	\$750.00
35		405620A-THW	White 4 Wire Aero-I Handset with Display	\$2,400.00
36		405622A-THW	White 4 Wire Cradle	\$750.00
37		405621B-THW	White 2 Wire Handset	\$2,400.00
38		405622B-THW	White 2 Wire Cradle	\$750.00
39		405006A	TT-5006A Mechanically steered antena (incl. NRS/GPS)	\$21,700.00
40		ASP-TT3000-104	Aero-M Shock Mount Tray w/ ARINC 404 Connector	\$1,995.00
41		PTA12-000	Cockpit Telephone Adapter	\$2,660.00
42		PTA12-100	Cockpit Telephone Adapter w/ Digital Display	\$3,590.00
43		PTA12-300	Cockpit Telephone Adapter w/ NVG Digital Display	\$4,909.00
44		PTA12-IKC (crimp)	PTA12/PTA12-100 Installation Kit	\$83.50
45		1700010	RBGAN SYSTEM Basic System Kit Consisting of: -RBGAN unit -Lilon Battery Pack -A/C Power Adapter -CDROM w/ Rbgan Software	\$500.00

			-USB Cable & drivers -Ethernet Interface & cable -Manual -SIM Card -Bluetooth wireless connectivity Activation Fee: -Monthly FeeUsage	
46		1700015	Spare Battery	\$141.00
47		1700020	Spare A/C Power Adapter	\$80.00
48		1700025	Spare D/C Power Adapter	\$52.00
49		1700035	RBGAN External Antenna	\$998.00
50		1700100	Thuraya handheld phone -220 VAC Adaptor -110 VAC Adaptor -Figure 8 AC Adaptor Battery -Charger -Manuals	\$891.00
51		1700105	Spare Battery	\$78.00
52		1700110	Car Charger	\$23.00
53		1700125	Vehicular Data Kit	\$476.00
54		1700200	Iridium 9505 Phone System w/ac -travel charger -battery pack -User guide -antenna adaptor & portable auxiliary -DC auto adapter -Leather holster -lanyard wrist strap -earpiece -User CDROM.	\$1,595.00
55		1700205	Spare battery	\$97.00
56		1700220	5 meter vehicular antenna with mag mount	\$198.00
57		1700400	Ruggedized Hardcase	\$495.00
58		1700405	Ruggedized Case for Compact Antenna	\$589.00
59		1700415	WEB Shuttle Card	\$189.00
60		1700416	DIVA PRO PC ISDN Card	\$450.00
61		1700420	Solar Panel	\$213.00
62		1700425	Ruggedized Case	\$208.00
63		37-108299-A	12Vdc Power Cable, (2 Meters), with Cigarette Lighter Connection adapter to (Interconnection Box - 403616B).	\$33.00
64		403008E-THR	403008E M4 Land Mobile Antenna	\$9,850.00
65		403008I	External antenna with 10m cable and pole mount kit for Explorer 500	\$600.00
66		403026-101	1.5" Pole Mount (cannot be used with Opt. 940) - (same as Sailor part#55.296)	\$84.00

67		403026-103	Adjustable pole/trailing mount (same as Sailor part#55.297)	\$79.00
68		403026-104	Opt. Magnet Mount for 403026L	\$79.00
69		403026-112	Landmobile Alert Button	\$87.00
70		403026-943	20 Meter Connection Cable (same as Sailor part#55.295)	\$276.00
71		403026-944	RS-232 DB-9 Plug with Screw	\$55.00
72		403026D-942	Antenna Cable, 10 meter TNC/TNC	\$111.00
73		403026D-947	Antenna Cable, 50 meter TNC/TNC	\$521.00
74		403026L-00500	eCTrack Land Mobile Tracking System with Alert and Messaging capability includes.: <ul style="list-style-type: none"> - Integrated Mini-C Transceiver - Omnidirectional Antenna - 12 channel GPS - 6 pin Input/Output Port and 10.5 - 32Vdc power supply. - easyMail Software - Operator manual 	\$1,800.00
75		403034G	403034G Compact Carphone Unit	\$2,050.00
76		403038A	403038A M4 Transceiver	\$6,673.00
77		403060-107	STU-III Pin code for Mini-M	\$471.00
78		403060-202	Soft Case (Manufacturer)	\$75.00
79		403060-920	Wall Mounting Bracket for Patch Antenna	\$198.00
80		403060-941	Antenna Cable, 5 meter TNC/TNC	\$79.00
81		403060-942	Antenna Cable, 10 meter TNC/TNC	\$126.00
82		403060-944	Antenna Cable, 20 meter TNC/TNC	\$300.00
83		403060-945	Antenna Cable, 30 meter TNC/TNC	\$378.00
84		403060-946	Antenna Cable, 40 meter TNC/TNC	\$489.00
85		403060-947	Antenna Cable, 50 meter TNC/TNC	\$591.00
86		403060-949	Antenna Cable, 70 meter TNC/TNC	\$2,051.00
87		403060B-00520	INMARSAT Mini-M Mobile Telephone System Basic system consisting of: <ul style="list-style-type: none"> -Transceiver Unit with Handset -TT-3007E Patch Antenna48H/2.5H -Battery Pack with 9-18V -DC Charger (5-6 Hours) -Solar Panel Interface -TT-3682B AC Fast Charge Adapter -5 Meter Antenna E 	\$3,775.00
88		403060B-00510	INMARSAT Mini-M Mobile Telephone System Basic system consisting of: <ul style="list-style-type: none"> -Transceiver Unit with Handset -TT-3007A Patch Antenna48H/2.5H -Battery Pack with 9-18V -DC Charger (5-6 Hours) -Solar Panel Interface 	\$2,495.00

			-TT-3682B AC Fast Charge Adapter -5 Meter Antenna E	
89		403062-938	Antenna Cable, 1 meter TNC/TNC	\$95.00
90		403062-939	Opt. 939, Antenna Cable 3m TNC/TNC	\$126.00
91		403062D-941	Antenna Cable, 5 meter TNC/TNC	\$55.00
92		403062D-THR	INMARSAT Mini-M Vehicular Antenna System Basic System consisting of: -Transceiver Unit with Handset and Cradle -Low-profile Tracking Antenna -Integrated LNA/HPA -2.5 meter Cable and Magnetic Base -Operates on 10-32 VDC Supply -Cigarette Lighter Adapter	\$4,595.00
93		403066A-00510	INMARSAT Mini-M Mobile Telephone System Basic system consisting of: - Transceiver Unit (fixed mount) with Handset and Cradle - High Gain Antenna w/LNA/HPA - Solar Panel Interface - 5 Meter Antenna Extension Cable - 10-32 VDC Power	\$3,750.00
94		403080-104	MPDS/IPDS Software Upgrade	\$946.00
95		403080-107	Spare STU-III Software/Low Speed	\$760.00
95		403080A-941	Antenna Cable, 5 meter QLA/TNC	\$111.00
97		403080A-942	Antenna Cable, 10 meter QLA/TNC	\$134.00
98		403080A-943	Adapter Cable, QLA/TNC (2) NEEDED	\$47.00
99		403080A-944	Antenna Cable, 20 meter TNC/TNC	\$236.00
100		403080A-945	Antenna Cable, 30 meter TNC/TNC	\$410.00
101		403080A-946	Antenna Cable, 40 meter TNC/TNC	\$489.00
102		403080A-947	Antenna Cable, 50 meter TNC/TNC	\$553.00
103		403080A-948	Antenna Cable, 60 meter TNC/TNC	\$1,547.00
104		403080A-949	Antenna Cable, 70 meter TNC/TNC	\$1,737.00
105		403080A-951	Power Supply Cable, 10 meter PSU-ANT	\$213.00
106		403080A-953	Power Supply Cable, 20 meter PSU-ANT	\$308.00
107		403080A-954	Antenna Cable, 20 meter TNC/TNC	\$221.00
108		403080A-955	Magnetic Mounting Kit	\$315.00
109		403080A-956	Transceiver Mounting Bracket	\$315.00
110		403080A-00530	INMARSAT M4 Messenger w/MPDS Basic system consisting of: -403008B Big Dish Antenna -4 meter Antenna Cable -NiMH Battery Pack- RS -232 Computer Cable -AC Fast Charger -Adapter Kit for Car Battery (including cable and battery clips)	\$7,295.00

			-CDROM Configuration Sof	
111		403080A-00540	INMARSAT M4 Vehicular with Tracking Antenna System includes: -Transceiver Unit with Handset and Cradle -Fully Integrated Electronic Tracking Antenna -5 Mtr Antenna CableDC/DC PSU -5 Mtr Power Cable for connection to car battery -RS-232 PC Cable -ISDN Int	\$12,995.00
112		403080A-00510	INMARSAT Portable Telephone System Foldable Basic system consisting of: -403008A Remote Foldable Patch Antenna with 4 meterQLA/QLA cable -NiMH Battery Pack -RS-232 Computer Cable -AC Fast Charger -Adapter Kit for Car Battery- (including cable and battery	\$7,295.00
113		403080A-00520	Capsat Small Dish Messenger System -Incl. transceiver unit with handset -small dish antenna with transceiver cradle -10 meter antenna extender cable -NiMH battery pack -19 Vdc fast charger/AC-adapter - Power cable for connection with car battery - RS-232	\$7,895.00
114		403606L-THR	Landmobile/Maritime Touch Screen Message Terminal for Mini-C Terminals	\$1,005.00
115		403616B	CB3616B Interconnection breakout box for easy installation of Mini-C (same as Sailor part # 55.291)	\$159.00
116		403624A	mini-M Hands-Free Loudspeaker/Mic. Kit	\$80.00
117		403625A	Bluetooth handset plus charger	\$430.00
116		403680J	DC/DC Converter 24/12 volt, 100 watts	\$114.00
119		403682C	AC/DC Power Supply (For 403616B in fixed installation)	\$151.00
120		403682L	AC/DC power supply for Explorer 500	\$85.00
121		403686L	Battery Pack for Explorer 500	\$105.00
122		403710A	EXPLORER 500 Portable BGAN terminal (Class 2) - Max. Data Rates: Uplink 464 kbit/s, Downlink 448 kbit/s - One IP interface supporting multiple users (RJ45) - Built-in router (NAT/DHCP) - Buil-in Bluetooth interface ver. 1.2 - One 2-wire phone interface (R	\$2,850.00

123		403710A-003	Desktop charger cradle for Bluetooth handset	\$85.00
124		403710A-009	Car charger cable (37-108299-A)	\$45.00
125		403710A-202	Soft bag for Explorer 500	\$105.00
126		410220C	Capsat Manager 3.0 Fleet Tracking Software on CD-Rom incl. Standard Map package. Runs under Windows 95, Windows 98, Windows NT 4.0 or higher, and Windows 2000/XP.	\$1,577.00
127		410232B	Capsat Manager Map Making Kit (Maps 6.0)	\$1,184.00
128		S-403007A	Spare Patch Antenna	\$1,295.00
129		S-403007E	Spare Big Dish Antenna HPA/LNA	\$1,765.00
130		S-403007F	Spare Tracking Antenna Assembly	\$2,977.00
131		S-403008A	Foldable Antenna (spare)	\$3,615.00
132		S-403008B	Frame Mount Big Dish Antenna incl. HPA/LNA	\$3,615.00
133		S-403008D	Compact Dish Antenna	\$4,691.00
134		S-403617A	Fax/Phone Switch	\$330.00
135		S-403682B	Fast Charge AC-Adapter (2 Hour Charge)	\$150.00
136		S-403682C	Fast Charge AC Adapter, 19 VDC, 100 watts	\$157.00
137		S-403686C	Spare NiMH Battery Pack	\$141.00
138		S-403686D-THR	NiCd Batt(blue no logo)/ MM P	\$89.00
139		S-403689A	Desktop Charger w/AC Adapter	\$625.00
140		403026-940	5 Meter Connection Cable with 90 degree angular plug (same as Sailor part # 55.292)	\$119.00
141		403026-941	5 Meter Connection Cable (for use with Opt. 101 only) - (same as Sailor part#55.293)	\$119.00
142		403026-942	10 Meter Connection Cable (same as Sailor part # 55.294)	\$198.00

Delivery costs are not included in the prices quoted above. Overnight and 2-Day Delivery Times is not available for the equipment shown in this price list.

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**TERMS AND CONDITIONS APPLICABLE TO PURCHASE OF
TRAINING COURSES FOR GENERAL PURPOSE COMMERCIAL
INFORMATION TECHNOLOGY EQUIPMENT AND SOFTWARE
(SPECIAL ITEM NUMBER 132-50)**

1. SCOPE

- a. The Contractor shall provide training courses normally available to commercial customers, which will permit Government users to make full, efficient use of general purpose commercial IT products. Training is restricted to training courses for those products within the scope of this solicitation.
- b. The Contractor shall provide training at the Contractor's facility and/or at the Government's location, as agreed to by the Contractor and the Government.

2. ORDER

Written orders, EDI orders (GSA Advantage! and FACNET), credit card orders, and orders placed under blanket purchase agreements (BPAs) shall be the basis for the purchase of training courses in accordance with the terms of this contract. Orders shall include the student's name, course title, course date and time, and contracted dollar amount of the course.

3. TIME OF DELIVERY

The Contractor shall conduct training on the date (time, day, month, and year) agreed to by the Contractor and the Government.

4. CANCELLATION AND RESCHEDULING

- a. The Government will notify the Contractor at least seventy-two (72) hours before the scheduled training date, if a student will be unable to attend. The Contractor will then permit the Government to either cancel the order or reschedule the training at no additional charge. In the event the training class is rescheduled, the Government will modify its original training order to specify the time and date of the rescheduled training class.
- b. In the event the Government fails to cancel or reschedule a training course within the time frame specified in paragraph a, above, the Government will be liable for the contracted dollar amount of the training course. The Contractor agrees to permit the Government to reschedule a student who fails to attend a training class within ninety (90) days from the original course date, at no additional charge.
- c. The Government reserves the right to substitute one student for another up to the first day of class.
- d. In the event the Contractor is unable to conduct training on the date agreed to by the Contractor and the Government, the Contractor must notify the Government at least seventy-two (72) hours before the scheduled training date.

5. FOLLOW-UP SUPPORT

The Contractor agrees to provide each student with unlimited telephone support for a period of one (1) year from the completion of the training course. During this period, the student may contact the Contractor's instructors for refresher assistance and answers to related course curriculum questions.

6. PRICE FOR TRAINING

The price that the Government will be charged will be the Government training price in effect at the time of order placement, or the Government price in effect at the time the training course is conducted, whichever is less.

7. INVOICES AND PAYMENT

Invoices for training shall be submitted by the Contractor after Government completion of the training course. Charges for training must be paid in arrears (31 U.S.C. 3324). **PROMPT PAYMENT DISCOUNT, IF APPLICABLE, SHALL BE SHOWN ON THE INVOICE.**

8. FORMAT AND CONTENT OF TRAINING

- a. The Contractor shall provide written materials (i.e., manuals, handbooks, texts, etc.) normally provided with course offerings. Such documentation will become the property of the student upon completion of the training class.
- b. ****If applicable**** For hands-on training courses, there must be a one-to-one assignment of IT equipment to students.
- c. The Contractor shall provide each student with a Certificate of Training at the completion of each training course.
- d. The Contractor shall provide the following information for each training course offered:
 - (1) The course title and a brief description of the course content, to include the course format (e.g., lecture, discussion, hands-on training);
 - (2) The length of the course;
 - (3) Mandatory and desirable prerequisites for student enrollment;
 - (4) The minimum and maximum number of students per class;
 - (5) The locations where the course is offered;
 - (6) Class schedules; and
 - (7) Price (per student, per class (if applicable)).
- e. For those courses conducted at the Government's location, instructor travel charges (if applicable), including mileage and daily living expenses, must be indicated below. Rates paid as a result of travel must comply with the Federal Travel Regulation or Joint Travel Regulations, as applicable, in effect on the date(s) the travel is performed. Contractors cannot use GSA city pair contracts.

Course title, and a brief description of the course content, to include course format;

(1) C++ Programming and Problem Solving

This course provides students with basic problem solving techniques, and an overview of programming as well as the program development process, testing, and debugging. At the end of the course the student will have gained the competency in the areas of problem solving techniques, the elements of C++ programs including testing and debugging, numeric types, expressions, and output, program input and the software design process, looping, and functions, simple data types, both built in and user defined, data abstraction, and object oriented software development.

The course format will be a combination of lecture, discussion and hands-on training.

(2) The length of the course;

1 week long intensive course

(3) Mandatory and desirable prerequisites for student enrollment;

Basic computer skills using windows and word processing, some programming experience desired but not required.

(4) The minimum and maximum number of students per class;

The minimum number of students per class; ten (10)

The maximum number of students per class; twenty (20)

(5) The locations where the course is offered;

The course will be presented on site at ITSI or at the government site. Travel outside the Baltimore/Washington D.C. Metro area will require per diem travel costs which are not included in the price per person.

(6) Class Schedules;

The student will attend class Monday through Friday from 8:30 am to 12:30 pm and 1:30 pm to 5:30 pm. A 1 hour lunch break and intermittent breaks during sessions will be given based on the instructor's discretion.

(7) Price per student, per class

\$ 1650 per person. Course materials are included in the cost of the course.

(1) Course title, and a brief description of the course content, to include course format;
Object Oriented Design

This course provides the student with the knowledge to approach software development based on modeling objects from the real world in order to build a language of independent design organized around those objects. The class will promote better understanding of requirements, cleaner designs, and more maintainable systems. At the end of this course the student will have gained competency in object oriented development and themes, the object modeling technique, aggregation of object modeling, dynamic and functional modeling, software engineering methodology, analysis of object oriented development, system

and object design, the process from design through implementation, object oriented and non-object oriented languages, and relational databases.

The course format will be a combination of lecture, discussion and hands-on training.

- (2) The length of the course;
1 week long intensive course
- (3) Mandatory and desirable prerequisites for student enrollment;
A basic course in C programming
- (4) The minimum and maximum number of students per class;
The minimum number of students per class; ten (10)
The maximum number of students per class; twenty (20)
- (5) The locations where the course is offered;
The course will be presented on site at ITSI or at the government site. Travel outside the Baltimore/Washington D.C. Metro area will require per diem travel costs which are not included in the price per person.
- (6) Class Schedules;
The student will attend class Monday through Friday from 8:30 am to 12:30 pm and 1:30 pm to 5:30 pm. A 1 hour lunch break and intermittent breaks during sessions will be given based on the instructor's discretion.
- (7) Price per student, per class
\$ 1650 per person. Course materials are included in the cost of the course.

- (1) Course title, and a brief description of the course content, to include course format;
Software Testing

This course will provide students with a basic overview of software testing, testing strategy, testing tactics, and other life cycle approaches to testing. At the end of this course the student will have gained competency in the development of a testing approach, defining a software system and testing strategies and tactics, testing software using a lifecycle methodology, requirements phase testing, evaluating testing results, acceptance testing, testing methods, tools and techniques, assessing client server and LAN (local area networks) and test documentation.

The course format will be a combination of lecture, discussion and hands-on training.
- (2) The length of the course;
1 week long intensive course
- (3) Mandatory and desirable prerequisites for student enrollment;
Basic software development or systems analysis experience recommended
- (4) The minimum and maximum number of students per class;
The minimum number of students per class; ten (10)

The maximum number of students per class; twenty (20)

- (5) The locations where the course is offered;

The course will be presented on site at ITSI or at the government site. Travel outside the Baltimore/Washington D.C. Metro area will require per diem travel costs which are not included in the price per person.

- (6) Class Schedules;

The student will attend class Monday through Friday from 8:30 am to 12:30 pm and 1:30 pm to 5:30 pm. A 1 hour lunch break and intermittent breaks during sessions will be given based on the instructor's discretion.

- (7) Price per student, per class

\$ 1650 per person. Course materials are included in the cost of the course.

- (1) Course title, and a brief description of the course content, to include course format;
Java Programming

This course will provide the students with the knowledge and skill required to design and implement Java programs that create graphical user interfaces (GUI's), involve, input, and output, use Java's utility classes, and handle strings and events. At the end of this course the student will have gained competency in simulation with multiple inheritance with interfaces, error handling programs, building elaborate GUI's with abstract windowing toolkits, creating applets. The student will also be proficient in key classes in Java.Lang and utility packages, string manipulation and handling, input and output classes, the delegation event model and its usage, building GUI's with swing, and building applications/applets that use the utility and input/output classes and handle strings and events.

The course format will be a combination of lecture, discussion and hands-on training.

- (2) The length of the course;

1 week long intensive course

- (3) Mandatory and desirable prerequisites for student enrollment;

Basic computer skills and a foundation of basic Java knowledge and knowledge of object oriented concepts.

- (4) The minimum and maximum number of students per class;

The minimum number of students per class; ten (10)

The maximum number of students per class; twenty (20)

- (5) The locations where the course is offered;

The course will be presented on site at ITSI or at the government site. Travel outside the Baltimore/Washington D.C. Metro area will require per diem travel costs which are not included in the price per person.

- (6) Class Schedules;

The student will attend class Monday through Friday from 8:30 am to 12:30 pm and 1:30 pm to 5:30 pm. A 1 hour lunch break and intermittent breaks during sessions will be given based on the instructor's discretion.

- (7) Price per student, per class
\$ 1650 per person. Course materials are included in the cost of the course.
-

- (1) Course title, and a brief description of the course content, to include course format;
Software Engineering

The software engineering course provides students with the knowledge of methods, procedures, techniques, and tools that have been adopted across a broad spectrum of industry applications. Software engineering methods will be presented in the chronological sequence that they are applied during software development. At the end of the course the student will have gained competency in basic software characteristics, components, applications, and software paradigms, software project engineering management including matrix, estimation, and planning, computer system engineering and software requirements analysis, requirements analysis fundamentals. Additionally, the student will be proficient in object oriented analysis and data modeling, alternative analysis techniques and formal methods, the design and implementation of software, object oriented design, programming languages and coding, and ensuring, maintaining and verifying software integrity.

The course format will be a combination of lecture, discussion and hands-on training.

- (2) The length of the course;
1 week long intensive course
- (3) Mandatory and desirable prerequisites for student enrollment;
Basic computer skills
- (4) The minimum and maximum number of students per class;
The minimum number of students per class; ten (10)
The maximum number of students per class; twenty (20)
- (5) The locations where the course is offered;
The course will be presented on site at ITSI or at the government site. Travel outside the Baltimore/Washington D.C. Metro area will require per diem travel costs which are not included in the price per person.
- (6) Class Schedules;
The student will attend class Monday through Friday from 8:30 am to 12:30 pm and 1:30 pm to 5:30 pm. A 1 hour lunch break and intermittent breaks during sessions will be given based on the instructor's discretion.
- (7) Price per student, per class
\$ 1650 per person. Course materials are included in the cost of the course.
-

- (1) Course title, and a brief description of the course content, to include course format;
Microsoft Outlook 2000

This class will teach employees how to optimize their work activities and effectively manage email and other group-wise capabilities. The student will build and share schedules, generate email, and optimize their environment. At the end of this course the student will know how to automatically delay delivery of messages, automatically send custom reply messages, choose the best outlook 2000 message format for a recipient, remove out of office messages from inbox, and add commands to the menu bar. Additionally, the student will be able to rearrange your outlook groups, use and customize views, understand user shortcuts, send a link to an outlook folder in a 2000 message, set personal reminders, and share contacts using electronic business cards and outlook 2000.

The course format will be a combination of lecture, and discussion with an emphasis on hands-on training.

- (2) The length of the course;
1 and 2 day intensive courses available
- (3) Mandatory and desirable prerequisites for student enrollment;
Basic computer skills
- (4) The minimum and maximum number of students per class;
The minimum number of students per class; ten (10)
The maximum number of students per class; twenty (20)
- (5) The locations where the course is offered;
The course will be presented on site at ITSI or at the government site. Travel outside the Baltimore/Washington D.C. Metro area will require per diem travel costs which are not included in the price per person.
- (6) Class Schedules;
The student will attend class Monday through Friday from 8:30 am to 12:30 pm and 1:30 pm to 5:30 pm. A 1 hour lunch break and intermittent breaks during sessions will be given based on the instructor's discretion.
- (7) Price per student, per class
\$250 per person, per day. Course materials are included in the cost of the course.

- (1) Course title, and a brief description of the course content, to include course format;
Microsoft Windows 2000

This class will provide users who have solid experience in a windows environment an opportunity to leverage their knowledge and to become proficient in the use of a Windows 2000 operating system, Office 2000 Professional, and Microsoft Outlook 2000. The course will cover the necessary tools to perform everyday functions which may include moving, resizing, and manipulating windows. The exercises provided in this class will group actions in order for the student to quickly develop mastery of the material. Competency will include the knowledge to access all programs from the proper menu, add and create toolbars, customize browse and view properties, in addition to many other skills.

The course format will be a combination of lecture, and discussion with an emphasis on hands-on training.

- (2) The length of the course;
1 and 2 day intensive courses available
- (3) Mandatory and desirable prerequisites for student enrollment;
Basic computer skills
- (4) The minimum and maximum number of students per class;
The minimum number of students per class; ten (10)
The maximum number of students per class; twenty (20)
- (5) The locations where the course is offered;
The course will be presented on site at ITSI or at the government site. Travel outside the Baltimore/Washington D.C. Metro area will require per diem travel costs which are not included in the price per person.
- (6) Class Schedules;
The student will attend class Monday through Friday from 8:30 am to 12:30 pm and 1:30 pm to 5:30 pm. A 1 hour lunch break and intermittent breaks during sessions will be given based on the instructor's discretion.
- (7) Price per student, per class
\$250 per person, per day. Course materials are included in the cost of the course.
-

- (1) Course title, and a brief description of the course content, to include course format;
Microsoft Word 2000
- This class will provide students with an opportunity to learn advanced features of Word 2000. At the end of the course the student will have gained competency in editing documents by moving and copying text between separate documents, formatting characters and paragraphs, creating and modifying tables, adjusting margins, creating headers and footers and page breaks, and splitting document windows. In addition the student will become proficient in table management, creating forms, linking excel worksheets, and importing text and graphics from other applications.**
- The course format will be a combination of lecture, and discussion with an emphasis on hands-on training.**
- (2) The length of the course;
1 and 2 day intensive courses available
- (3) Mandatory and desirable prerequisites for student enrollment;
Basic computer skills
- (4) The minimum and maximum number of students per class;
The minimum number of students per class; ten (10)
The maximum number of students per class; twenty (20)
- (5) The locations where the course is offered;

- The course will be presented on site at ITSI or at the government site. Travel outside the Baltimore/Washington D.C. Metro area will require per diem travel costs which are not included in the price per person.**
- (6) Class Schedules;
The student will attend class Monday through Friday from 8:30 am to 12:30 pm and 1:30 pm to 5:30 pm. A 1 hour lunch break and intermittent breaks during sessions will be given based on the instructor's discretion.
- (7) Price per student, per class
\$250 per person per day. Course materials are included in the cost of the course.
-

- (1) Course title, and a brief description of the course content, to include course format;
Microsoft Excel 2000
- This class will provide students with an opportunity to learn advanced features of Microsoft Excel 2000. At the end of this course the student will have gained the competency to create conditional sums, templates, labels, charts, Excel with the Web, count and identify unique entries, and create links between workbooks.**
- The course format will be a combination of lecture, and discussion with an emphasis on hands-on training.**
- (2) The length of the course;
1 and 2 day intensive courses available
- (3) Mandatory and desirable prerequisites for student enrollment;
Basic computer skills and a proficiency in creating a basic excel worksheet.
- (4) The minimum and maximum number of students per class;
The minimum number of students per class; ten (10)
The maximum number of students per class; twenty (20)
- (5) The locations where the course is offered;
The course will be presented on site at ITSI or at the government site. Travel outside the Baltimore/Washington D.C. Metro area will require per diem travel costs which are not included in the price per person.
- (6) Class Schedules;
The student will attend class Monday through Friday from 8:30 am to 12:30 pm and 1:30 pm to 5:30 pm. A 1 hour lunch break and intermittent breaks during sessions will be given based on the instructor's discretion.
- (7) Price per student, per class
\$250 per person, per day. Course materials are included in the cost of the course.
-

- (1) Course title, and a brief description of the course content, to include course format;
Microsoft Office 2000 Professional; Advanced Microsoft Powerpoint

This class will help students learn advanced features of PowerPoint 2000 including animated GIF files, movies, Inserting slides, duplicating slides, slide views, templates, and custom shows.

The course format will be a combination of lecture, and discussion with an emphasis on hands-on training.

- (2) The length of the course;
1 and 2 day intensive courses available
 - (3) Mandatory and desirable prerequisites for student enrollment;
Basic computer skills, 6 months of working with PowerPoint and/or a knowledge of how to create and save a document using basic editing techniques, and be able to maneuver within PowerPoint at an elementary level.
 - (4) The minimum and maximum number of students per class;
The minimum number of students per class; ten (10)
The maximum number of students per class; twenty (20)
 - (5) The locations where the course is offered;
The course will be presented on site at ITSI or at the government site. Travel outside the Baltimore/Washington D.C. Metro area will require per diem travel costs which are not included in the price per person.
 - (6) Class Schedules;
The student will attend class Monday through Friday from 8:30 am to 12:30 pm and 1:30 pm to 5:30 pm. A 1 hour lunch break and intermittent breaks during sessions will be given based on the instructor's discretion.
 - (7) Price per student, per class
\$500 per person. Course materials are included in the cost of the course.
-

- (1) Course title, and a brief description of the course content, to include course format;
Microsoft Office 2000 Professional: Advanced Microsoft Access

This class will provide users who have solid experience in a Windows environment an opportunity to leverage their knowledge and to become proficient in the use of the features of Access 2000. At the end of this course the student will have gained competency in backing up tables, exporting reports, creating databases from files and other formats, organizing controls into a group, in an access 2000 form or report, and reporting data.

The course format will be a combination of lecture, and discussion with an emphasis on hands-on training.

- (2) The length of the course;
1 and 2 day intensive courses available
- (3) Mandatory and desirable prerequisites for student enrollment;
Basic computer skills, 6 months of working with Microsoft Access
- (4) The minimum and maximum number of students per class;

- The minimum number of students per class; ten (10)**
- The maximum number of students per class; twenty (20)**
- (5) The locations where the course is offered;
- The course will be presented on site at ITSI or at the government site. Travel outside the Baltimore/Washington D.C. Metro area will require per diem travel costs which are not included in the price per person.**
- (6) Class Schedules;
- The student will attend class Monday through Friday from 8:30 am to 12:30 pm and 1:30 pm to 5:30 pm. A 1 hour lunch break and intermittent breaks during sessions will be given based on the instructor's discretion.**
- (7) Price per student, per class
- \$250 per person, per day. Course materials are included in the cost of the course.**
-

9. "NO CHARGE" TRAINING

The Contractor shall describe any training provided with equipment and/or software provided under this contract, free of charge, in the space provided below.

No training is available at the free of charge rate, due to training materials and course costs.

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**TERMS AND CONDITIONS APPLICABLE TO INFORMATION
TECHNOLOGY (IT)
PROFESSIONAL SERVICES (SPECIAL ITEM NUMBER 132-51)**

1. SCOPE

- a. The prices, terms and conditions stated under Special Item Number 132-51 Information Technology Professional Services apply exclusively to IT Services within the scope of this Information Technology Schedule.
- b. The Contractor shall provide services at the Contractor's facility and/or at the Government location, as agreed to by the Contractor and the ordering office.

2. PERFORMANCE INCENTIVES

- a. When using a performance based statement of work, performance incentives may be agreed upon between the Contractor and the ordering office on individual fixed price orders or Blanket Purchase Agreements, for fixed price tasks, under this contract in accordance with this clause.
- b. The ordering office must establish a maximum performance incentive price for these services and/or total solutions on individual orders or Blanket Purchase Agreements.
- c. To the maximum extent practicable, ordering offices shall consider establishing incentives where performance is critical to the agency's mission and incentives are likely to motivate the contractor. Incentives shall be based on objectively measurable tasks.
- d. The above procedures do not apply to Time and Material or labor hour orders.

3. ORDERING PROCEDURES FOR SERVICES (REQUIRING A STATEMENT OF WORK)

FAR 8.402 contemplates that GSA may occasionally find it necessary to establish special ordering procedures for individual Federal Supply Schedules or for some Special Item Numbers (SINs) within a Schedule. GSA has established special ordering procedures for services that require a Statement of Work. These special ordering procedures take precedence over the procedures in FAR 8.404 (b)(2) through (b)(3). GSA has determined that the prices for services contained in the contractor's price list applicable to this Schedule are fair and reasonable. However, the ordering office using this contract is responsible for considering the level of effort and mix of labor proposed to perform a specific task being ordered and for making a determination that the total firm-fixed price or ceiling price is fair and reasonable.

- (a) When ordering services, ordering offices shall—
 - (1) Prepare a Request (Request for Quote or other communication tool):
 - (i) A statement of work (a performance-based statement of work is preferred) that outlines, at a minimum, the work to be performed, location of work, period of performance, deliverable schedule, applicable standards, acceptance criteria, and any special requirements (i.e., security clearances, travel, special knowledge, etc.) should be prepared.
 - (ii) The request should include the statement of work and request the contractors to submit either a firm-fixed price or a ceiling price to provide the services outlined in the statement of work. A firm-fixed price order shall be requested, unless the ordering office makes a determination that it is not possible at the time of placing the order to estimate accurately the extent or duration of the work or to anticipate cost with any reasonable degree of confidence. When such a determination is made, a labor hour or time-and-materials proposal may be requested. The firm-fixed price shall be based on the rates in the schedule contract and shall consider the mix of labor categories and level of effort

required to perform the services described in the statement of work. The firm-fixed price of the order should also include any travel costs or other incidental costs related to performance of the services ordered, unless the order provides for reimbursement of travel costs at the rates provided in the Federal Travel or Joint Travel Regulations. A ceiling price must be established for labor-hour and time-and-materials orders.

(iii) The request may ask the contractors, if necessary or appropriate, to submit a project plan for performing the task, and information on the contractor's experience and/or past performance performing similar tasks.

(iv) The request shall notify the contractors what basis will be used for selecting the contractor to receive the order. The notice shall include the basis for determining whether the contractors are technically qualified and provide an explanation regarding the intended use of any experience and/or past performance information in determining technical qualification of responses. If consideration will be limited to schedule contractors who are small business concerns as permitted by paragraph (2)(i) below, the request shall notify the contractors that will be the case.

(2) Transmit the Request to Contractors:

(i) Based upon an initial evaluation of catalogs and price lists, the ordering office should identify the contractors that appear to offer the best value (considering the scope of services offered, pricing and other factors such as contractors' locations, as appropriate). When buying IT professional services under SIN 132—51 ONLY, the ordering office, at its discretion, may limit consideration to those schedule contractors that are small business concerns. This limitation is not applicable when buying supplies and/or services under other SINS as well as SIN 132-51. The limitation may only be used when at least three (3) small businesses that appear to offer services that will meet the agency's needs are available, if the order is estimated to exceed the micro-purchase threshold.

(ii) The request should be provided to three (3) contractors if the proposed order is estimated to exceed the micro-purchase threshold, but not exceed the maximum order threshold. For proposed orders exceeding the maximum order threshold, the request should be provided to additional contractors that offer services that will meet the agency's needs. Ordering offices should strive to minimize the contractors' costs associated with responding to requests for quotes for specific orders. Requests should be tailored to the minimum level necessary for adequate evaluation and selection for order placement. Oral presentations should be considered, when possible.

(3) Evaluate Responses and Select the Contractor to Receive the Order:

After responses have been evaluated against the factors identified in the request, the order should be placed with the schedule contractor that represents the best value. (See FAR 8.404)

(b) The establishment of Federal Supply Schedule Blanket Purchase Agreements (BPAs) for recurring services is permitted when the procedures outlined herein are followed. All BPAs for services must define the services that may be ordered under the BPA, along with delivery or performance time frames, billing procedures, etc. The potential volume of orders under BPAs, regardless of the size of individual orders, may offer the ordering office the opportunity to secure volume discounts. When establishing BPAs, ordering offices shall—

(1) Inform contractors in the request (based on the agency's requirement) if a single BPA or multiple BPAs will be established, and indicate the basis that will be used for selecting the contractors to be awarded the BPAs.

(i) SINGLE BPA: Generally, a single BPA should be established when the ordering office can define the tasks to be ordered under the BPA and establish a firm-fixed price or ceiling price for individual tasks or services to be ordered. When this occurs, authorized users may place the order directly under the established BPA when the need for service

arises. The schedule contractor that represents the best value should be awarded the BPA. (See FAR 8.404)

(ii) **MULTIPLE BPAs:** When the ordering office determines multiple BPAs are needed to meet its requirements, the ordering office should determine which contractors can meet any technical qualifications before establishing the BPAs. When multiple BPAs are established, the authorized users must follow the procedures in (a)(2)(ii) above and then place the order with the Schedule contractor that represents the best value.

(2) **Review BPAs Periodically:** Such reviews shall be conducted at least annually. The purpose of the review is to determine whether the BPA still represents the best value. (See FAR 8.404)

(c) The ordering office should give preference to small business concerns when two or more contractors can provide the services at the same firm-fixed price or ceiling price.

(d) When the ordering office's requirement involves both products as well as executive, administrative and/or professional, services, the ordering office should total the prices for the products and the firm-fixed price for the services and select the contractor that represents the best value. (See FAR 8.404)

The ordering office, at a minimum, should document orders by identifying the contractor from which the services were purchased, the services purchased, and the amount paid. If other than a firm-fixed price order is placed, such documentation should include the basis for the determination to use a labor-hour or time-and-materials order. For agency requirements in excess of the micro-purchase threshold, the order file should document the evaluation of Schedule contractors' quotes that formed the basis for the selection of the contractor that received the order and the rationale for any trade-offs made in making the selection.

Ordering procedures for other services available on schedule at fixed prices for specifically defined services or tasks should use the procedures in FAR 8.404. These procedures are listed in the pricelist, under "Information for Ordering Offices," paragraph #12.

4. ORDER

a. Agencies may use written orders, EDI orders, blanket purchase agreements, individual purchase orders, or task orders for ordering services under this contract. Blanket Purchase Agreements shall not extend beyond the end of the contract period; all services and delivery shall be made and the contract terms and conditions shall continue in effect until the completion of the order. Orders for tasks which extend beyond the fiscal year for which funds are available shall include FAR 52.232-19 Availability of Funds for the Next Fiscal Year. The purchase order shall specify the availability of funds and the period for which funds are available.

b. All task orders are subject to the terms and conditions of the contract. In the event of conflict between a task order and the contract, the contract will take precedence.

5. PERFORMANCE OF SERVICES

a. The Contractor shall commence performance of services on the date agreed to by the Contractor and the ordering office.

b. The Contractor agrees to render services only during normal working hours, unless otherwise agreed to by the Contractor and the ordering office.

c. The Agency should include the criteria for satisfactory completion for each task in the Statement of Work or Delivery Order. Services shall be completed in a good and workmanlike manner.

d. Any Contractor travel required in the performance of IT/EC Services must comply with the Federal Travel Regulation or Joint Travel Regulations, as applicable, in effect on the date(s) the travel is performed. Established Federal Government per diem rates will apply to all Contractor travel. Contractors cannot use GSA city pair contracts.

6. INSPECTION OF SERVICES

The Inspection of Services–Fixed Price (AUG 1996) clause at FAR 52.246-4 applies to firm-fixed price orders placed under this contract. The Inspection–Time-and-Materials and Labor-Hour (JAN 1986) clause at FAR 52.246-6 applies to time-and-materials and labor-hour orders placed under this contract.

7. RESPONSIBILITIES OF THE CONTRACTOR

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City, or otherwise) covering work of this character. If the end product of a task order is software, then FAR 52.227-14 Rights in Data – General, may apply.

8. RESPONSIBILITIES OF THE GOVERNMENT

Subject to security regulations, the ordering office shall permit Contractor access to all facilities necessary to perform the requisite IT/EC Services.

9. INDEPENDENT CONTRACTOR

All IT/EC Services performed by the Contractor under the terms of this contract shall be as an independent Contractor, and not as an agent or employee of the Government.

10. ORGANIZATIONAL CONFLICTS OF INTEREST

a. Definitions.

“Contractor” means the person, firm, unincorporated association, joint venture, partnership, or corporation that is a party to this contract.

“Contractor and its affiliates” and “Contractor or its affiliates” refers to the Contractor, its chief executives, directors, officers, subsidiaries, affiliates, subcontractors at any tier, and consultants and any joint venture involving the Contractor, any entity into or with which the Contractor subsequently merges or affiliates, or any other successor or assignee of the Contractor.

An “Organizational conflict of interest” exists when the nature of the work to be performed under a proposed Government contract, without some restriction on activities by the Contractor and its affiliates, may either (i) result in an unfair competitive advantage to the Contractor or its affiliates or (ii) impair the Contractor’s or its affiliates’ objectivity in performing contract work.

b. To avoid an organizational or financial conflict of interest and to avoid prejudicing the best interests of the Government, ordering offices may place restrictions on the Contractors, its affiliates, chief executives, directors, subsidiaries and subcontractors at any tier when placing orders against schedule contracts. Such restrictions shall be consistent with FAR 9.505 and shall be designed to avoid, neutralize, or mitigate organizational conflicts of interest that might otherwise exist in situations related to individual orders placed against the schedule contract. Examples of situations, which may require restrictions, are provided at FAR 9.508.

11. INVOICES

The Contractor, upon completion of the work ordered, shall submit invoices for IT/EC services. Progress payments may be authorized by the ordering office on individual orders if appropriate. Progress payments shall be based upon completion of defined milestones or interim products. Invoices shall be submitted monthly for recurring services performed during the preceding month.

12. PAYMENTS

For firm-fixed price orders the Government shall pay the Contractor, upon submission of proper invoices or vouchers, the prices stipulated in this contract for service rendered and accepted. Progress payments shall be made only when authorized by the order. For time-and-materials orders, the Payments under Time-and-Materials and Labor-Hour Contracts (Alternate I (APR 1984)) at FAR 52.232-7 applies to time-and-materials orders placed under this contract. For labor-hour orders, the Payment under Time-and-Materials and Labor-Hour Contracts (FEB 1997) (Alternate II (JAN 1986)) at FAR 52.232-7 applies to labor-hour orders placed under this contract.

13. RESUMES

Resumes shall be provided to the GSA Contracting Officer or the user agency upon request.

14. INCIDENTAL SUPPORT COSTS

Incidental support costs are available outside the scope of this contract. The costs will be negotiated separately with the ordering agency in accordance with the guidelines set forth in the FAR.

15. APPROVAL OF SUBCONTRACTS

The ordering activity may require that the Contractor receive, from the ordering activity's Contracting Officer, written consent before placing any subcontract for furnishing any of the work called for in a task order.

16. DESCRIPTION OF IT/EC SERVICES AND PRICING

a. The Contractor shall provide a description of each type of IT/EC Service offered under Special Item Numbers 132-51. IT Services should be presented in the same manner as the Contractor sells to its commercial and other Government customers. If the Contractor is proposing hourly rates, a description of all corresponding commercial job titles (labor categories) for those individuals who will perform the service should be provided.

b. Pricing for all IT Services shall be in accordance with the Contractor's customary commercial practices; e.g., hourly rates, monthly rates, term rates, and/or fixed prices.

The following is an example of the manner in which the description of a commercial job title should be presented:

SIN 132-51 POSITION DESCRIPTIONS

PURCHASE OF PROFESSIONAL IT SERVICES

Order Code: 01 SIN 132-51
Program Manager ITSI Site: \$151.20 Gov't Site: \$143.64

Duties: The Program Manager is the contractor's manager for the Contract, and serves as the single point of contact for the Contractor with the regarding the Contract. Performs overall management for Contract support operations. Organizes, directs, and coordinates the planning and production of all Contract activities, projects and support activities, including those of subcontractors. Oversees the development of or develops work breakdown structures, charts, tables, graphs, major milestone calendars and diagrams to assist in analyzing problems and making recommendations. Demonstrates excellent written and verbal communications skills. Establishes and alters corporate management structure to direct effective and efficient Contract support activities. Must be capable of negotiating and making binding decisions for the Contractor.

Education: Bachelor's Degree from an accredited college or university in Engineering, Computer Science, Information Systems, Business or other related discipline. Master's degree and/or project management certification is preferred.
General Experience: At least twelve (12) years of experience in program or project management.

Specialized Experience: At least eight (8) years of experience in supervision or oversight of IT related programs or projects.

Order Code: 02 SIN 132-51
Project Manager ITSI Site: \$133.61 Gov't Site: \$126.93

Duties: The Project Manager is assigned the management of a specific project and the work performed under assigned Task Orders. Performs day-to-day management of the project, identifies issues and risks and recommends possible issue and risk mitigation strategies associated with the project. Acts as a facilitator between a State agency and IT contractor. Is responsible for ensuring that work performed under TOs is within scope, consistent with requirements, and delivered on time and on budget. Identifies critical paths, tasks, dates, testing, and acceptance criteria. Provides solutions to improve efficiency (e.g., reduce costs while maintaining or improving performance levels). Monitors issues and provides resolutions for up-to-date status reports. Demonstrates excellent writing and oral communications skills.

Education: Bachelor's Degree from an accredited college or university in Engineering, Computer Science, Information Systems, Business or other related discipline. Master's degree or project management certification is preferred.

General Experience: At least ten (10) years of experience in project management.

Specialized Experience: At least five (5) years of experience in managing IT related projects and must demonstrate a leadership role in at least three successful projects that were delivered on time and on budget.

Order Code: 03 SIN 132-51

Senior Subject Matter Expert ITSI Site: \$184.79 Gov't Site: \$ 175.55

Duties: The area of expertise may be related to a specific discipline required by the agency including, but not limited to: information technology, health care, education, public safety, social services, human resources, transportation, and environment. Requires expertise in the formulation of specifications and in the execution of technical initiatives in vertical areas. Defines requirements, performs analyses, and develops plans and requirements for systems.

Education: Bachelor's Degree from an accredited college or university in the specific discipline required. A Master's Degree or Ph.D. Degree is preferred.

General Experience: At least twelve (12) years of relevant industry experience in the discipline is required.

Specialized Experience: At least ten (10) years of combined new and related older technical experience in the IT field directly related to the required area of expertise.

Order Code: 04 SIN 132-51

Subject Matter Expert ITSI Site: \$150.15 Gov't Site: \$142.64

Duties: Defines the problems and analyzes and develops plans and requirements in the subject matter area for moderately complex-to-complex systems. Coordinates and manages the preparation of analysis, evaluations, and recommendations for proper implementation of programs and systems specifications including, but not limited to: information technology, health care, education, public safety, social services, human resources, transportation, and environment.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have seven (7) years of experience in the IT field.

Specialized Experience: At least five (5) years of combined new and related older technical experience in the IT field directly related to the required area of expertise.

Order Code: 05 SIN 132-51

Senior Computer Software/Integration Analyst ITSI Site: \$135.86 Gov't Site: \$129.07

Duties: Must be knowledgeable in implementing computer systems in a phased approach of requirements analysis and conceptual design, site survey, system design review, critical design review, installation, integration, and testing. Must be knowledgeable in performing requirements analysis for a wide range of users in areas such as office automation, and finance and accounting. Must be able to present system designs for user approval at formal reviews. Must be capable of performing configuration management, software integration, interpreting software test results, and recommending solutions for unsatisfactory test results. Must be knowledgeable in life-cycle support, including maintenance, administration, and management. Must be able to provide solutions to identified software problem reports.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have eight (8) years of progressive working experience as a computer specialist or a computer systems analyst. **Specialized Experience:** At least five (5) years of experience as a Computer Systems Analysts.

Order Code: 06 SIN 132-51

Senior Computer Specialist ITSI Site: \$122.85 Gov't Site: \$116.71

Duties: Must be able to determine costs for converting computer systems from one language or machine to another by using compilers, simulators, emulators, and/or language translators and to recommend better utilization of operating systems capabilities for improving system efficiency. Develops, manages, maintains, and evaluates current state-of-the-art computer hardware, software, and software development tools; evaluates their ability to support specific requirements and interface with other equipment and systems; determines potential and actual bottlenecks and proposes recommendations for their elimination; and makes recommendations for system improvements that will result in optimal hardware and software use.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related

field. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have 8 years of computer experience in at least two of the following disciplines: system analysis, system programming, application programming, and equipment analysis.

Specialized Experience: At least 5 years of experience either as a computer hardware or systems software specialist or as a systems analyst with duties relating to the evaluation of third and fourth generation of current state-of-the-art computer hardware and software and its ability to support specific requirements for hardware and software evaluation, system management, or large-scale system development and maintenance.

Order Code: 07 SIN 132-51

Computer Specialist ITSI Site: \$108.68 Gov't Site: \$103.24

Duties: Must be able to determine costs for converting computer systems from one language or machine to another by utilizing compilers, simulators, emulators, and/or language translators and recommend better utilization of operating systems capabilities to improve system efficiency. Must be able to develop, manage, maintain, and evaluate state-of-the-art computer hardware, software, and software development tools; evaluate their ability to support specific requirements and interface with other equipment and systems; determine potential and actual bottlenecks; propose recommendations for their elimination; and make recommendations for systems improvements that will result in optimal hardware and software usage.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have five (5) years of computer experience in at least two (2) of the following disciplines: systems analysis, systems programming, application programming, or equipment analysis.

Specialized Experience: At least three (3) years of experience as either a computer hardware and/or systems software specialist, or as a systems analyst with duties relating to the evaluation of third- and fourth-generation or state-of-the-art computer hardware and software and its ability to support specific requirements for systems management or large-scale system development and maintenance.

Order Code: 08 SIN 132-51

Senior Computer Systems Analyst ITSI Site: \$121.37 Gov't Site: \$ 115.31

Duties: Provides technical and administrative direction for personnel performing software development tasks, including the review of work products for correctness, adherence to the design concept and to user standards and for progress in accordance with schedules. Must be able to coordinate with the Program Manager to ensure problem solution and user satisfaction. Makes recommendations, if needed, for approval of major systems installations. Prepares milestone status reports and deliveries/presentations on the system concept to colleagues, subordinates, and end user representatives. Provides daily supervision and direction to support staff.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have eight (8) years of computer experience working independently or under general direction on complex application problems involving all phases of systems analysis.

Specialized Experience: At least five (5) years of experience in analysis and design of business applications for complex large-scale or mid-tier computer systems, or LAN-based systems, to include experience in Database Management Systems (DBMS), and use of programming languages. Knowledge of current storage and retrieval methods and demonstrated ability to formulate specifications for computer programmers to use in coding, testing, and debugging of computer programs.

Order Code: 09 SIN 132-51

Junior Computer Systems Analyst ITS Site: \$69.36 Gov't Site: \$65.90

Duties: Develops requirements for information systems from a project's inception to conclusion. Develops required specifications for simple to moderately complex systems. Assists senior computer systems analyst in preparing input and test data for the proposed system.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have three (3) years of computer experience in assignments of a technical nature working under close supervision and direction.

Specialized Experience: At least one (1) year of experience in analyzing and programming applications on large-scale or mid-tier computers (or LAN-based) with a minimum of one (1) year of design and programming of moderately complex IT systems.

Order Code: 10 SIN 132-51

Applications Programmer ITSI Site: \$73.05 Gov't Site: \$69.40

Duties: Analyzes functional business applications and design specifications for functional areas such as finance, accounting, personnel, manpower, logistics, and contracts. Develops block diagrams and logic flowcharts. Translates detailed design into computer software. Tests, debugs, and refines the computer software to produce the required product. Prepares required documentation, including both program-level and user-level documentation. Enhances software to reduce operating time or improve efficiency. Provides technical direction to programmers as required to ensure program deadlines are met.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have five (5) years of computer experience in information systems design.

Specialized Experience: At least three (3) years of experience as an application programmer on large-scale DBMS, knowledge of computer equipment, and ability to develop complex software to satisfy design objectives.

Order Code: 11 SIN 132-51

Applications Development Expert ITSI Site: \$150.15 Gov't Site: \$142.64

Duties: Provides design recommendations based on long-term IT organization strategy. Develops enterprise level application and custom integration solutions including major enhancements and interfaces, functions and features. Uses a variety of platforms to provide automated systems applications to customers. Provides expertise regarding the integration of applications across the business. Determines specifications, then plans, designs, and develops the most complex and business critical software solutions, utilizing appropriate software engineering processes – either individually or in concert with a project team. Will assist in the most difficult support problems. Develops programming and development standards and procedures as well as programming architectures for code reuse. Has in-depth knowledge of state-of-the art programming languages and object-oriented approach in designing, coding, testing and debugging programs. Understands and consistently applies the attributes and processes of current application development methodologies. Researches and maintains knowledge in

emerging technologies and possible application to the business. Viewed both internally and externally as a technical expert and critical technical resource across multiple disciplines. Acts as an internal consultant, advocate, mentor and change agent.

Education: Preference for a Bachelor's or Master's Degree in Computer Science, Information Systems, or other related field or equivalent work experience.

General Experience: At least seven (7) years of IT and business/industry work experience.

Specialized Experience: At least three (3) years as Technical expert in IT organization. Coaches and mentors more junior technical staff. Provides technical input into the most complex and high impact IT decisions. Accountable for the most complex enterprise-wide applications and issues, translating highly complex concepts for peers and customers.

Order Code: 12 SIN 132-51

Senior Computer Systems Programmer ITSI Site: \$113.40 Gov't Site: \$107.73

Duties: Create and/or maintain operating systems, communications software, database packages, compilers, repositories, and utility and assembler programs. Modify existing software and develop special-purpose software to ensure efficiency and integrity between systems and applications.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have twelve (12) years of computer experience in information systems design.

Specialized Experience: At least ten (10) years of experience in IT systems analysis and programming.

Order Code: 13 SIN 132-51

Computer Systems Programmer ITSI Site: \$94.10 Gov't Site: \$89.39

Duties: Create and/or maintain operating systems, communications software, database packages, compilers, repositories, and utility and assembler programs. Modify existing software and develop special-purpose software to ensure efficiency and integrity between systems and applications.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related

scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have five (5) years of computer experience in information systems design.

Specialized Experience: At least three (3) years of experience in IT systems analysis and programming.

Order Code: 14 SIN 132-51

Senior Computer Programmer ITSI Site: \$84.02 Gov't Site: \$79.81

Duties: Must be capable of utilizing third- and fourth-generation or current state-of-the-art IT equipment and languages to develop and prepare diagrammatic plans for solution of business, management, communications, and strategic problems. Must be able to design detailed programs, flowcharts, and diagrams showing mathematical computations and sequence of machine operations necessary to copy and process data and print results. Must be able to verify the accuracy and completeness of programs and systems by preparing sample representative data and perform testing by means of cycle and system processing.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have eight (8) years of programming experience in software development or maintenance.

Specialized Experience: At least five (5) years of experience in IT systems analysis and programming.

Order Code: 15 SIN 132-51

Junior Computer Programmer ITSI Site: \$61.31 Gov't Site: \$58.24

Duties: Must be capable of translating detail program flowcharts into program-coded instructions used by third- and fourth-generation, or current state-of-the-art computers.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have three (3) years of computer programming experience.

Order Code: 16 SIN 132-51

Advanced Technology Senior Application Developer ITSI Site: \$122.85

Gov't Site: \$116.71

Duties: Must be able to translate applications requirements into web-based solutions using available technology. Must be able to apply new and emerging technologies to the software development process.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or five (5) years of equivalent experience in a related field. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have three (3) years of computer experience in at least two of the following disciplines: system analysis, system programming, application programming, and equipment analysis.

Specialized Experience: At least one (1) year of experience developing applications using advanced technologies, including Internet protocols or web-based technology. Technologies include HTML, CGI applications, PERL or Javascript, and Java.

Order Code: 17 SIN 132-51

Advanced Technology Application Developer ITSI Site: \$93.38 Gov't Site:

\$88.71

Duties: Must be able to translate applications requirements into web-based solutions using available technology. Must be able to apply new and emerging technologies to the software development process.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have two (2) years of computer experience in at least two of the following disciplines: systems analysis, systems programming, application programming, and equipment analysis.

Specialized Experience: At least one (1) year of experience developing applications using advanced technologies, such as Internet protocols or web-based technology. Technologies include HTML, CGI applications, PERL or Javascript, and Java.

Order Code: 18 SIN 132-51
Senior Information Engineer ITSI Site: \$115.29 Gov't Site: \$109.53

Duties: Develops analytical and computational techniques and methodology for problem solutions. Performs process and data modeling in support of the planning and analysis efforts using manual and automated tools; such as Integrated Computer-Aided Software Engineering (I-CASE) tools. Must be able to apply reverse engineering and reengineering disciplines to develop migration strategic and planning documents. Provides technical guidance in software engineering techniques and automated support tools. Must be capable of applying business process improvement practices to modernization projects. Applies, as appropriate, activity and data modeling transaction flow analysis; internal control and risk analysis; modern business methods; and performance measurement techniques. Assists in establishing standards for information systems procedures. Develops and applies organization wide information models for use in designing and building integrated, shared software and DBMS.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have eight (8) years of experience in managing the implementation of information engineering projects and experience in systems analysis, design and programming using CASE and IE tools and methods.

Specialized Experience: At least five (5) years of experience in information systems development, functional and data requirement analysis, systems analysis and design, programming, program design, and documentation preparation.

Order Code: 19 SIN 132-51
Information Engineer ITSI Site: \$102.06 Gov't Site: \$96.96

Duties: Must be capable of applying a business wide set of disciplines for planning, analysis, design, construction, and maintenance of information systems on a business-wide basis or across a major sector of the business. Must be capable of performing business strategic systems planning, information planning, and analysis. Performs process and data modeling in support of the planning and analysis efforts using both manual and automated tools, such as I-CASE tools. Must be able to apply reverse engineering and reengineering disciplines to develop migration strategic and planning documents. Provides technical guidance in software engineering techniques and automated support tools.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related

scientific or technical discipline. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have five (5) years of experience in engineering, systems analysis, design, and programming.

Specialized Experience: At least two (2) years of experience in information systems development, functional and data requirement analysis, systems analysis and design, programming, program design, and documentation preparation.

Order Code: 20 SIN 132-51

Senior IT Professional ITSI Site: \$135.86 Gov't Site: \$129.07

Duties: Identifies strategic issues for the Information Management Department and advises IT Senior Management of the risks and/or opportunities created by these issues. Issues will be centered on IT measurements and IT project management. IT measurements will encompass the refining or creating of measures related to value creation of IT products and services. Project Management will include presenting recommendations on ways of managing projects more effectively (including, but not limited to: appropriate methodology and quality reviews) Accountabilities include coordinating input from various IT departments to develop recommendations, conducting analyses of issues and ensuring adequate communication of the endorsed positions and recommendations to stakeholders.

Education: Bachelor's Degree from an accredited college or university in Engineering, Computer Science, Information Systems, Business, Mathematics or a related technical or business field. A Master's degree is preferred.

General Experience: At least eight (8) years of relevant industry experience in the discipline required.

Order Code: 21 SIN 132-51

Database Manager ITSI Site: \$93.38 Gov't Site: \$ 88.71

Duties: Must be capable of managing the development of database projects. Must be able to plan and budget staff and data resources. Supports application developers in planning preparation, load analysis, and backup and recovery of data. When necessary, reallocates resources to maximize benefits. Must be able to prepare and deliver presentations on DBMS concepts. Provides daily supervision and direction to support staff. Monitors performance and evaluates areas to improve efficiency.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have seven (7) years of experience in the development and maintenance of database systems.

Specialized Experience: At least five (5) years of experience with database management systems, system design and analysis, operating systems software, and internal and data manipulation languages.

Order Code: 22 SIN 132-51

Senior Database Management Specialist ITSI Site: \$90.75 Gov't Site: \$86.21

Duties: Must be capable of providing highly technical expertise and support in the use of DBMS. Must be able to evaluate and recommend available DBMS products to support validated user requirements. Defines file organization, indexing methods, and security procedures for specific user applications. Develops, implements, and maintains database back-up and recovery procedures for the processing environments, and ensures that data integrity, security, and recoverability are built into the DBMS applications.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have six (6) years experience in DBMS systems analysis and programming.

Specialized Experience: At least three (3) years of experience in using current DBMS technologies, application design utilizing various database management systems and experience with DBMS internals.

Order Code: 23 SIN 132-51

Junior Database Management Specialist ITSI Site: \$78.81 Gov't Site: \$74.87

Duties: Must be capable of providing highly technical expertise and support in the use of DBMS. Must be able to evaluate and recommend available DBMS products to support validated user requirements. Defines file organization, indexing methods, and security procedures for specific user applications. Develops, implements, and maintains database back-up and recovery procedures for the processing environments, and ensures that data integrity, security, and recoverability are built into the DBMS applications.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have three (3) years experience in DBMS systems analysis and programming.

Specialized Experience: At least one (1) years of experience in using current DBMS technologies, application design utilizing various database management systems and experience with DBMS internals.

Order Code: 24 SIN 132-51

Quality Assurance Manager ITSI Site: \$80.51 Gov't Site: \$76.49

Duties: Must be capable of maintaining and establishing a process for evaluating software and associated documentation. Must be able to determine the resources required for quality control. Must be able to maintain the level of quality throughout the software life cycle. Develops software quality assurance plans. Conducts formal and informal reviews at predetermined points throughout the development life cycle.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have six (6) years of experience in quality assurance and quality control.

Specialized Experience: At least three (3) years of experience in verification and validation, software testing and integration, software metrics, and their application to software quality assessment.

Order Code: 25 SIN 132-51

Senior Quality Assurance Consultant ITSI Site: \$146.39 Gov't Site: \$139.07

Duties: Provides quality management for information systems using the standard methodologies, techniques, and metrics for assuring product quality and key activities in quality management. Establish capable processes, monitoring and control of critical processes and product mechanisms for feedback of performance, implementation of an effective root cause analysis and corrective action system, and continuous process improvement. Provides strategic quality plans in targeted areas of the organization. Provides QA strategies to ensure continuous production of products consistent with established industry standards, government regulations and customer requirements. Develops and implements life cycle and QA methodologies and educates, and implements QA metrics.

Education: Bachelor's Degree from an accredited college or university in Engineering, Computer Science, Information Systems or other related discipline. A Master's degree preferred.

General Experience: At least eight (8) years information systems quality assurance experience.

Specialized Experience: At least five (5) years experience working with statistical methods and quality standards. Must have good QA/process knowledge and possess superior written and verbal communication skills.

Order Code: 26 SIN 132-51

Quality Assurance Specialist ITSI Site: \$70.58 Gov't Site: \$67.05

Duties: Must be able to determine the resources required for quality control. Must be able to maintain the level of quality throughout the software life cycle. Develops software quality assurance plans. Must be capable of maintaining and establishing a process for evaluating software and associated documentation. Participates in formal and informal reviews at predetermined points throughout the development life cycle to determine quality. Examines and evaluates the software quality assurance (SQA) process and recommends enhancements and modifications. Develops quality standards.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have five (5) years of experience working with quality control methods and tools.

Specialized Experience: At least three (3) years of experience in verification and validation, software testing and integration, software metrics, and their application to software quality assessment, and a demonstrated knowledge of system and project life cycles.

Order Code: 27 SIN 132-51

Testing Specialist ITSI Site: \$69.36 Gov't Site: \$65.90

Duties: Must be capable of designing and executing IT software tests and evaluating results to ensure compliance with applicable regulations. Must be able to prepare test scripts and all required test documentation. Must be able to design and prepare all needed test data. Analyzes internal security within systems. Reviews test results and evaluates for conformance to design.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related

scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have 4 years of experience in computer software development.

Specialized Experience: At least 2 years of software testing experience (integration and acceptance).

Order Code: 28 SIN 132-51

Training Specialist/Instructor ITSI Site: \$73.05 Gov't Site: \$69.40

Duties: Conducts the research necessary to develop and revise training courses and prepares appropriate training catalogs. Prepares all instructor materials (course outline, background material, and training aids). Prepares all student materials (course manuals, workbooks, handouts, completion certificates, and course critique forms). Trains personnel by conducting formal classroom courses, workshops, and seminars.

Education: A Bachelor's Degree from an accredited college or university with a major in Education/Training in the areas of Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have 4 years of experience in information systems development, training, or related fields.

Specialized Experience: At least 2 years of experience in developing and providing IT and end user training on computer hardware and application software.

Order Code: 29 SIN 132-51

Senior Systems Engineer ITSI Site: \$84.79 Gov't Site: \$80.55

Duties: Must be able to analyze information requirements. Must be able to evaluate problems in workflow, organization, and planning. Develops appropriate corrective action. Provides daily supervision and direction to staff.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have six (6) years of experience in systems engineering.

Specialized Experience: At least three (3) years of experience in the supervision of system engineers, and demonstrated use of interactive, interpretative systems with on-line, real-time acquisition capabilities.

Order Code: 30 SIN 132-51
Systems Engineer ITSI Site: \$69.36 Gov't Site: \$65.90

Duties: Must be capable of analyzing information requirements. Evaluates system problems of workflow, organization, and planning. Develops appropriate corrective action.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have three (3) years of experience in systems engineering.

Specialized Experience: At least one (1) year of experience in analytical problem solving of workflow, organization and planning.

Order Code: 31 SIN 132-51
Software Engineer ITSI Site: \$72.66 Gov't Site: \$69.02

Duties: Reviews and analyzes system specifications. Prepares programming specifications. Analyzes existing systems/subsystems for reusability benefits and needed changes. Prepares design plans and written analyses. Prepares unit and test scripts. Prepares documentation.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have three (3) years of experience as a software engineer.

Specialized Experience: At least two (2) years of experience working with ADA, SQL, or third/fourth generation languages in the design and implementation of systems and one (1) year working with DBMS.

Order Code: 32 SIN 132-51
Senior Interdisciplinary Engineer ITSI Site: \$135.86 Gov't Site: \$129.07

Duties: Must have demonstrated ability to perform senior level engineering and/or IT tasks in the disparate areas of software, electronics telecommunications, or networking. Must be capable of translating mission requirements and information problems into solutions employing current state-of-the-art information system equipment and software. Must be able to define interaction with and/or interface between these different categories of requirements and to develop the appropriate design to support these requirements while employing methodologies from any of the above disciplines as required. Must be able to serve as a liaison to interpret and translate among the various disciplines represented on the task team, and serve as a point of contact for evaluation of problems arising from the interdisciplinary nature of the task.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have eight (8) years of experience in technical work in the major areas of system management and system integration.

Specialized Experience: At least five (5) years of experience in specialized IT and telecommunications disciplines involving system interfaces, system integration and network development, and/or integration involving a wide range of network, hardware, and software solutions. At least 3 years in operating systems software, electronic communications analysis and design, or networking.

Order Code: 33 SIN 132-51

Interdisciplinary Engineer ITSI Site: \$122.85 Gov't Site: \$116.71

Duties: Must be capable of translating mission requirements and information problems into solutions employing current state-of-the-art information system equipment and software. Must be able to define interaction and interface among different categories of requirements, and develop appropriate design to support the requirements while employing IT methodologies. Must be able to serve as a liaison to interpret and translate various disciplines represented on the task team, and serve as a point of contact for evaluation of problems arising from the interdisciplinary nature of the task.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have five (5) years of experience in technical work in the areas of system management and system integration.

Specialized Experience: At least three (3) years experience in IT disciplines involving operating systems software, electronics communications analysis and design, system interface, systems integration, and mechanical or civil engineering.

Order Code: 34 SIN 132-51

Computer Operations Center Specialist ITSI Site: \$94.10 Gov't Site: \$89.39

Duties: Establishes detailed schedules for utilization of all equipment in the computer operations center to obtain maximum usage. Consults with personnel in other data processing sections to coordinate activities, and prepare activity and progress reports regarding the computer operations center. Evaluates production, equipment and personnel costs. Analyzes and interprets technical data processing data. Communicates technical data processing information effectively both orally and in writing. Applies applicable rules, regulations, policies and procedures of the computer operations center.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: This position requires a minimum of five (5) years of experience.

Specialized Experience: At least three (3) years of specialized experience working in a computer operations center. Ability to function in a multi-system and/or multi-application environment. Ability to operate and monitor multiple terminals. Knowledge of data processing operations, equipment, procedures, and workflow. Knowledge of environmental requirements of mainframes, servers and other hardware. Knowledge of emergency security procedures for a computer operations center.

Order Code: 35 SIN 132-51

Computer Operations Research Analyst ITSI Site: \$73.09 Gov't Site: \$69.44

Duties: Performs technical work in the operation of electronic computers and auxiliary peripheral equipment. Collates information into meaningful reports and presentation material. Maintains any technical information in a systems library. Applies principles and methods to obtain maximum utilization of computer equipment. Operates and cares for electronic computer and peripheral equipment.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field.

General Experience: A minimum of one (1) year of work experience in a business environment.

Specialized Experience: At least one (1) year of demonstrated experience working in a computer operations center. Ability to function in a multi-system and/or multi-application environment. Ability to follow complex oral and written instruction. Ability to operate and monitor multiple terminals.

Order Code: 36 SIN 132-51
Senior Operations Research Analyst ITSI Site: \$122.85 Gov't Site: \$116.71

Duties: Conducts investment analyses or other complex operational analyses. Provides expertise and supports evaluations of program results and potential changes to program results related to IT investments along with an analysis and presentations of alternatives. Provides operational analyses support to all phases of the life cycle of an information system. Conducts operational analyses of existing systems using performance measures, criteria, and standards to determine requirements for needed changes. Evaluates, selects, and uses the tools of modern operations research (such as commercially available decision and analytical support software tools) to conduct analyses of projected changes to system or program performance. Supports architecture efforts including economic analyses of architecture alternatives, architecture issues resolutions, and affordability analyses.

Education: Bachelor's Degree from an accredited college or university in a related field, with at least 24 semester hours in a combination of mathematics, probability, statistics and logic. Master's degree preferred.

General Experience: Must have eight (8) years experience in operations research.

Specialized Experience: At least five (5) years experience in conducting quantitative analysis using operations research tools, econometrics, or other quantitative techniques.

Order Code: 37 SIN 132-51
Senior Systems Analyst ITSI Site: \$84.79 Gov't Site: \$80.55

Duties: Serves as a computer systems expert on assignments that typically involve establishing automated systems, where concern is with overall life cycle structure; and conducts feasibility studies from design, implementation and post-implementation evaluation from a number of possible approaches. Design criteria must be established to accommodate changes in legislation, mission, or functional program requirements.

Education: Bachelor's Degree from an accredited college or university in Computer Science, Systems Analysis, Information Systems or a related field. A Master's Degree in a related field of information technology is preferred.

General Experience: A minimum of eight (8) years of experience in information technology systems analysis.

Specialized Experience: At least five (5) years of the experience in the design of business applications on complex IT systems. Requires a broad knowledge of data sources, data flow, system interactions, advanced computer equipment and software applications, and advanced systems design techniques to develop solutions to unyielding complex problems and to advise officials on systems design and IT forecasts.

Order Code: 38 SIN 132-51

Senior Information Technology Architect ITSI Site: \$150.15 Gov't Site: \$142.64

Duties: Provides expertise in the most current principles and practices of architecture data management systems and experience in large system designs, and with data modeling in the information management arena. Provides expertise in modeling and organizing information to facilitate support of projects or information architectures. Provides guidance on how and what to data and process model. Primarily deals with transition planning from legacy to modern systems by concentrating on information flows, data exchange, and data translation standardization services.

Education: Bachelor's Degree from an accredited college or university with a major in Engineering, Computer Science, Mathematics or a related field. Master's degree preferred.

General Experience: At least ten (10) years experience planning, designing, building, and implementing IT systems.

Specialized Experience: At least five (5) years of the required 10 years of experience must be in the direct supervision and management of major projects that involve providing professional support services and/or the integration, implementation and transition of large complex system and subsystem architectures. Must have led or been chief architect in major IT implementation efforts. Must demonstrate a broad understanding of client IT environmental issues and solutions and be a recognized expert within the IT industry. Must demonstrate advanced abilities to team and mentor and possess demonstrated excellence in written and verbal communication skills.

Order Code: 39 SIN 132-51

Senior Information Technology Planner ITSI Site: \$155.93 Gov't Site: \$148.13

Duties: Provides planning services for a wide range of programs and projects including design, development, implementation, post-implementation and maintenance of the systems. Provides SWOT analyses, critical success factor analyses, strategic business planning, strategic information systems planning, value chain analyses, e-business assessments, and other techniques used to establish strategic plans. Provides expertise in conducting research, evaluations, and studies required to develop both short-term and long-term plans. Provides plans, designs, concepts, and develops both general and specific program and project strategies for linking proposed investments in IT to business results. Provides planning, scheduling, networking and coordination assistance among

State organizations involved in implementation and integration efforts. Identifies problems and recommends solutions.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Planning or other related scientific or technical discipline. A Master's degree is preferred.

General Experience: At least ten (10) years progressive experience as an IT planner - or involved in planning type functions.

Specialized Experience: At least six (6) years of experience in planning, analyses, design, development, implementation and post-implementation of IT projects or systems.

Order Code: 40 SIN 132-51

Senior Application Architect ITSI Site: \$135.86 Gov't Site: \$129.07

Duties: Manages major projects that involve providing professional support services and/or the integration, implementation and transition of large, complex systems. Provides design and development of e-government solutions, and is responsible for technical design and implementation of the architecture. Designs, develops and maintains infrastructure and backend applications. Provides expertise on defining the role of broadband and wireless applications. Provides definition of current State architecture blueprints. Provides expertise with web servers, gateways, and application servers and content management systems. Provides experience in web application technologies and middleware solutions. Researches new technologies and products for their applicability to business processes. Must be able to compare various solutions and determine the most suitable. Ensures that development efforts are well planned and in agreement with standards.

Education: Bachelor's Degree from an accredited college or university in Engineering, Computer Science, Mathematics or other related scientific or technical discipline. Master's degree preferred.

General Experience: At least ten (10) years of experience planning, designing, building, and implementing IT application systems. Must have led or been chief architect in a major IT applications implementation effort. Must have a strong background in software engineering principles and techniques.

Specialized Experience: At least six (6) years of experience in designing medium to large-scale sites and management of at least five Internet projects.

Order Code: 41 SIN 132-51

Senior Computer Operator ITSI Site: \$74.75 Gov't Site: \$71.02

Education: A high school diploma or equivalent. An Associate's Degree from an accredited college or university in Computer Science, Information Systems, Business or

other related technical discipline is preferred. An Associate's Degree in one of the above disciplines equals one-year specialized and two years general experience. An additional year of specialized experience may be substituted for the required education.

General Experience: Seven years experience in a computer-related field.

Specialized Experience: Five years experience administering multi-user, shared processor systems.

Order Code: 42 SIN 132-51

Computer Operator ITSI Site: \$45.80 Gov't Site: \$43.52

Education: A high school diploma or equivalent. An Associate's Degree from an accredited college or university in Computer Science, Information Systems, Business or other related technical discipline is preferred. An Associate's Degree in one of the above disciplines equals one-year specialized and two years general experience. An additional year of specialized experience may be substituted for the required education.

General Experience: Five years experience in a computer-related field.

Specialized Experience: Three years experience administering multi-user, shared processor systems.

Order Code:43 SIN 132-51

Office Automation Specialist ITSI Site: \$27.11 Gov't Site: \$25.75

Duties: Specialized data entry work, operating specialized data entry equipment in a high production and closely monitored work environment. Responsible for key entering data from a variety of source documents with specific standards maintained for speed and accuracy.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: This position requires a minimum of five (5) years of experience data entry work and equipment.

Specialized Experience: At least three (3) years of specialized experience in the operation of specialized data entry equipment.

Order Code: 44 SIN 132-51

Help Desk Manager ITSI Site: \$74.75 Gov't Site: \$71.02

Duties: Provides daily supervision and direction to staff who are responsible for phone and in-person support to users in the areas of e-mail, directories, standard Windows desktop applications, and other network services. Manages personnel who serve as the first point of contact for troubleshooting hardware and software PC and printer problems.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: This position requires a minimum of seven (7) years of experience in the management of a Help Desk. General experience includes information systems development, network and other work in the client/server field, or related fields.

Specialized Experience: At least five (5) years of specialized experience includes management of help desks in a multiserver environment, comprehensive knowledge of PC operating systems (e.g., DOS, Windows), networking and mail standards, and supervision of help desk employees. Demonstrated ability to effectively communicate orally and in writing and to have a positive customer service attitude.

Order Code: 45 SIN 132-51

Senior Help Desk Specialist ITSI Site: \$52.41 Gov't Site: \$49.79

Duties: Provides telephone and in-person support to users in the areas of directories, standard Windows desktop applications, and applications developed under this Contract or predecessors. Serves as the initial point of contact for troubleshooting hardware/software PC and printer problems.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field.

General Experience: This position requires a minimum of seven (7) years of experience in a business IT environment with emphasis on PC computer hardware and applications. General experience includes, but is not limited to: information systems development, work in the client/server field, or related fields.

Specialized Experience: At least five (5) years comprehensive knowledge of PC operating systems, e.g., DOS, Windows, as well as work on a help desk. Demonstrated ability to effectively communicate orally and in writing and to have a positive customer service attitude.

Order Code: 46 SIN 132-51

Junior Help Desk Specialist ITSI Site: \$52.41 Gov't Site: \$49.79

Duties: Provides telephone and in-person support to users in the areas of directories, standard Windows desktop applications, and applications developed under this Contract or predecessors. Serves as the initial point of contact for troubleshooting hardware/software PC and printer problems.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field.

General Experience: This position requires a minimum of five (5) years of experience in business IT environments with emphasis on PC hardware and applications. General experience includes information systems development, work in the client/server field, or related fields.

Specialized Experience: At least two (2) years comprehensive knowledge of PC operating systems, e.g., DOS, Windows, as well as work on a help desk. Demonstrated ability to communicate orally and in writing and to have a positive customer service attitude.

Order Code: 47 SIN 132-51
Systems Administrator ITSI Site: \$72.65 Gov't Site: \$69.01

Duties: Monitor and coordinate all data system operations, including security procedures, and liaison with end users. Ensure that necessary system backups are performed and storage and rotation of backups is accomplished. Monitor and maintain records of system performance and capacity to arrange vendor services or other actions for reconfiguration and anticipate requirements for system expansion. Assist managers to monitor and comply with State data security requirements. Coordinate software development, user training, network management and minor installation and repair of equipment.

Education: An Associate's degree from an accredited college or university in Computer Science, Information Systems, Business or other related technical discipline. A Bachelor's Degree in one of the above disciplines equals one-year specialized and two years general experience. An additional year of specialized experience may be substituted for the required education.

General Experience: Two years experience in a computer-related field.

Specialized Experience: One year experience administering multi-user, shared processor systems and data communications networks.

Order Code: 48 SIN 132-51
Senior Computer Security Systems Specialist ITSI Site: \$151.20 Gov't Site: \$143.64

Duties: Analyzes and defines security requirements for Multilevel Security (MLS) issues. Designs, develops, engineers, and implements solutions to MLS requirements. Responsible for the implementation and development of the MLS. Gathers and organizes technical information about an organization's mission goals and needs, existing security products, and ongoing programs in the MLS arena. Performs risk analyses, which also include risk assessment. Provides daily supervision and direction to staff.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: This position requires a minimum of eight (8) years of experience in analysis and definition of security requirements.

Specialized Experience: At least five (5) years of specialized experience in defining computer security requirements for high-level applications, evaluation of approved security product capabilities, and developing solutions to MLS problems.

Order Code: 49 SIN 132-51
Computer Security Systems Specialist ITSI Site: \$108.68 Gov't Site: \$103.24

Duties: Analyzes and defines security requirements for MLS issues. Designs, develops, engineers, and implements solutions to MLS requirements. Gathers and organizes technical information about an agency's mission goals and needs, existing security products, and ongoing programs in the MLS arena. Performs risk analyses, which also include risk assessment. Provides daily direction to staff.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or four (4) years of equivalent experience in a related field. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: This position requires a minimum of six (6) years of experience in analysis and definition of security requirements.

Specialized Experience: At least four (4) years of specialized experience in defining computer security requirements for high-level applications, evaluation of approved security product capabilities, and developing solutions to MLS problems.

Order Code: 50 SIN 132-51
Data Security Specialist ITSI Site: \$84.02 Gov't Site: \$79.81

Duties: Responsible for the planning, design, implementation and monitoring of security measures, policies, methods and procedures which safeguard the integrity of and access to enterprise systems, files and data elements. Responsible for acting on security violations. Maintains knowledge of changing technologies, and provides recommendations for adaptation of new technologies or policies. Recognizes and identifies potential areas where existing data security policies and procedures require change, or where new ones need to be developed, especially regarding future business expansion. Provides management with risk assessments and security briefings to advise them of critical issues that may affect customer, or corporate security objectives.

Education: Preference for a Bachelor's Degree in Computer Science, Information Systems, or other related field or equivalent work experience.

General Experience: At least four (4) years of IT work experience in data security.

Specialized Experience: Has worked independently or as part of a team under general supervision and coached more junior technical staff.

Order Code: 51 SIN 132-51

System Security Specialist ITSI Site: \$115.29 Gov't Site: \$109.53

Duties: Provides expert-level advice, analysis, and functional expertise to tasks. Demonstrates exceptional oral and written communication skills. Reviews requirements and task documentation for accuracy and applicability.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: This position requires a minimum of twelve (12) years of experience in system security.

Specialized Experience: At least seven (7) years of highly specialized experience in one or more information, computer, or network security disciplines. These disciplines could include penetration testing, intrusion detection and audit analysis, public key infrastructure, cryptography, strong authentication, risk analysis, and multilevel security.

Order Code: 52 SIN 132-51

INFOSEC Engineer ITSI Site: \$135.86 Gov't Site: \$129.07

Duties: Analyzes and defines security requirements for information protection. Defines and develops security policies. Analyzes the sensitivity of information, performs vulnerability and risk assessments on the basis of defined sensitivity and information flow.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: This position requires a minimum of eight (8) years of experience in information protection.

Specialized Experience: At least five (5) years of experience in defining security programs or processes for the protection of sensitive or classified information.

Order Code: 53 SIN 132-51

System Security Research Analyst ITSI Site: \$62.47 Gov't Site: \$59.35

Duties: Gathers, analyzes, and composes technical information. Conducts research in one or more security disciplines and ensures the use of proper technical terminology. Translates technical information into clear, readable documents to be used by technical and non-technical personnel.

Education: A Bachelor's degree from an accredited college or university in a related field or high school diploma with additional experience. A Bachelor's degree is preferred.

General Experience: This position requires no experience if a B.A. or B.S. Degree has been obtained. If only a high school diploma has been obtained, a minimum of two (2) years of system security experience is required.

Specialized Experience: If a B.A. or B.S. Degree has been obtained, a minimum of one (1) year of experience is required in researching information using technical documentation, library resources, and the Internet.

Order Code: 54 SIN 132-51

Research Analyst ITSI Site: \$43.25 Gov't Site: \$41.09

Duties: Analyzes existing and potential product and service information, prospective customers and markets. Collates information into meaningful reports and presentation material. Maintains any technical information in a systems library.

Education: High School Diploma or Associate's Degree in Business, or related field. A Bachelor's degree is preferred.

General Experience: A minimum of one (1) year of work experience in a business environment.

Specialized Experience: At least one (1) year of demonstrated experience word processing, using electronic spreadsheets and other administrative software products. General knowledge of governmental documents and procedures.

Order Code: 55 SIN 132-51

Documentation Specialist ITSI Site: \$65.09 Gov't Site: \$61.83

Duties: Gathers, analyzes, and composes technical information. Conducts research and ensures the use of proper technical terminology. Translates technical information into clear, readable documents to be used by technical and non-technical personnel. For applications built to run in a Windows environment, uses the standard help compiler to prepare all on-line documentation.

Education: Associate's Degree in related field. A Bachelor's degree is preferred.

General Experience: Must have four (4) years of experience in technical writing and documentation experience pertaining to all aspects of IT.

Specialized Experience: A minimum of two (2) years of experience in preparing technical documentation, which is to include researching for applicable standards.

Order Code: 56 SIN 132-51

Technical Writer/Editor ITSI Site: \$63.83 Gov't Site: \$60.63

Duties: Assists in collecting and organizing information for preparation of user manuals, training materials, installation guides, proposals, and reports. Edits functional descriptions, system specifications, user manuals, special reports, or any other customer deliverables and documents. Conducts research and ensures the use of proper technical terminology. Translates technical information into clear, readable documents to be used by technical and non-technical personnel. For applications built to run in a Windows environment, uses the standard help compiler to prepare all on-line documentation. Assists in performing financial and administrative functions. Must demonstrate the ability to work independently or under only general direction.

Education: Associate's Degree in related field. A Bachelor's degree is preferred.

General Experience: A minimum of five (5) years of experience in this area.

Specialized Experience: At least two (2) years of experience in preparing and editing documents, including technical documents. Also includes researching for applicable standards.

Order Code: 57 SIN 132-51

Project Control Specialist ITSI Site: \$51.75 Gov't Site: \$49.17

Duties: Monitors financial and/or administrative aspects of assigned Contracts and deliverables. Tracks and validates all client financial information, establishes and maintains master Contract files, prepares and monitors status of all deliverables and tracks the value of Contracts. Uses automated systems to track deliverables, financial transactions, and management information.

Education: High School Diploma or equivalent. A Bachelor's degree is preferred.

General Experience: Must have three (3) years of experience working with monitoring systems. Familiar with manpower and resource planning, preparing financial reports and presentations, and cost reporting Contract guidelines.

Specialized Experience: Preparation and analysis of financial statements, development of project schedules, using cost-accounting and labor-reporting systems, working knowledge of Contract and subcontract management. Proficient in the use of spreadsheets and project management tools.

Order Code: 58 SIN 132-51

Program Administration Specialist ITSI Site: \$59.97 Gov't Site: \$56.97

Duties: Assists in the preparation of management plans and various customer reports. Coordinates schedules to facilitate the completion of TO and change proposals, Contract deliverables, TO reviews, briefings and presentations. Performs analysis, development, and review of program administrative operating plans and procedures.

Education: High school diploma or equivalent. A Bachelor's degree is preferred.

General Experience: Must have three (3) years of experience working with project management tools and reporting systems. Familiar with government contracts, work breakdown structures, management/business plans, and program reporting.

Specialized Experience: At least two (2) years of direct program experience in Contract administration and preparing management reports. Has worked in support of a Program Manager on a government Contract.

Order Code: 59 SIN 132-51

Internet/Intranet Site Developer Senior ITSI Site: \$79.50 Gov't Site: \$75.52

Duties: Must be able to translate applications requirements into the design of complex web sites, including integrating web pages and applications. Must be able to apply new and emerging technologies to the site development process.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related

field. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have five (5) years of web development experience using current Web development and graphic tools, as well as, Web Server and database administration.

Specialized Experience: At least three (3) years of experience designing, developing and deploying Web sites and/or Web applications, including product selection, configuration, installation, maintenance, and site specific Web development languages and relational databases.

Order Code:60 SIN 132-51
Internet/Intranet Site Developer Junior ITSI Site: \$60.11 Gov't Site: \$57.11

Duties: Must be able to translate applications requirements into the design of complex web sites, including integrating web pages and applications. Must be able to apply new and emerging technologies to the development process.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline or three (3) years of equivalent experience in a related field. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have one (1) year of web development experience using current Web development and graphic tools, as well as, Web server and database administration.

Specialized Experience: At least one (1) year of experience designing, developing and deploying Web sites and/or Web applications, including product selection, configuration, installation, maintenance, and site policy development. Experience developing Web pages using HTML, scripting languages, platform specific web development languages and relational databases.

Order Code: 61 SIN 132-51
Internet/Web Architect ITSI Site: \$102.06 Gov't Site: \$96.96

Duties: Responsible for analyzing assigned specifications, planning, designing and developing solutions, utilizing appropriate Internet/Intranet/Extranet architecture processes supporting a wide range of business process. Provides appropriate documentation for object design decisions, estimating assumptions, applets and performance metrics – as required by organization architecture process standards, or as assigned. Responsible for minimizing the issues between the client and the server applications and for the overall setup and design of the Internet and web server

architecture. Impact and complexity of this job increases if organization is utilizing Internet solutions (vs. only Intranet), especially those with significant business impact

Education: Preference for a Bachelor's Degree in Computer Science, Information Systems, or other related field or equivalent work experience.

General Experience: At least five (5) years of IT work experience.

Specialized Experience: Has worked independently or as a part of a team under general supervision and coached more junior technical staff. Technical expert in IT organization. Provides input into highly complex and high impacting decisions as it relates to area of expertise.

Order Code: 62 SIN 132-51

Computer Graphics Illustrator ITSI Site: \$51.75 Gov't Site: \$49.17

Duties: Duties will include recommending various methods of portraying ideas and the design, layout, and generation of a variety of graphical presentation products from rough drafts or outlines. Must possess skill in the preparation of graphs, charts and text data for visual presentations. Duties will be performed using complex automated color graphic equipment and PC software packages. A basic knowledge of graphic equipment, graphic software, file formats and graphic terms is required.

Education: High school diploma or equivalent. An additional year of specialized experience may be substituted for the required education.

Total Experience: Three years experience in creating and generating graphics using computer graphics software.

Order Code: 63 SIN 132-51

Senior Systems Architect ITSI Site: \$115.29 Gov't Site: \$109.53

Duties: Responsible for developing business, data, systems, and infrastructure models to develop enterprise architectures. Develops plans for migrating architectures. Develops technical reference models to include hardware/software standards. Engineer's integrated hardware and software solutions to meet mission requirements.

Education: Bachelor's Degree from an accredited college or university in Computer Science, Information Systems or related field or three (3) years of equivalent experience in a related field. A Master's Degree in information technology is a plus.

General Experience: Experience performing architecture related work on at least five (5) IT systems.

Specialized Experience: Experience performing a significant role in all aspects of architecture related work on at least two (2) large IT systems.

Order Code: 64 SIN 132-51
Systems Design Architect ITSI Site: \$94.10 Gov't Site: \$89.39

Duties: Must be able to lead team in developing application, development, network, and technical architectures for mid-range client/server and mainframe applications. Responsible for gathering and defining the architecture requirements and for ensuring that the architectures are compatible and in compliance with the appropriate IT organization and project standards.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have six (6) years of experience planning, designing, building, and implementing mid-range IT systems.

Specialized Experience: At least four (4) years of experience developing application, development, network, and technical architectures for mid-range client/server and mainframe applications. Demonstrated ability to develop and execute architecture strategies and to perform feasibility studies and integration analyses. Experience supervising and providing guidance in implementing various mid-range architectures and supporting implementation of large-scale applications.

Order Code: 65 SIN 132-51
Systems Design Engineer ITSI Site: \$108.68 Gov't Site: \$103.24

Duties: Must be able to perform design of information systems, including the design of the application architecture, database, and interfaces. Responsible for gathering and analyzing user requirements and translating them into system designs.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have six (6) years of experience planning, designing, building, and implementing IT systems. Familiar with Capability Maturity Model compliant structured methodology.

Specialized Experience: At least four (4) years of experience analyzing user requirements and translating them into system designs using various design tools and techniques. Demonstrated ability to develop and execute system designs, ensure

implementation of repeatable processes, and ensure compliance with Capability Maturity Model (CMM) methodology.

Order Code: 66 SIN 132-51

Senior Cost Accountant ITSI Site: \$89.74 Gov't Site: \$85.25

Duties: Provides cost estimating and financial management support, including all activities, which occur during the life cycle of an information technology application or system. Conducts investment analyses or other complex operational analyses. Provides expertise and support in conducting a full range of investment analyses activities, including market surveys, cost analyses, benefits analyses, risk analyses, economic analyses, requirements definitions, schedule development, and tradeoff studies. Supports architecture efforts including economic analyses of architecture alternatives, architecture issues resolutions, and affordability analyses. Conducts analytical studies involving complex technical analyses, schedule constraints, and system benefits and system cost factors. Identifies cost accounting or financial problems and recommends solutions. Presents plans, analyses, and other advice within functional areas.

Education: Bachelor's Degree from an accredited college or university in Economics, Business, Accounting, Finance, or related discipline. A Master's degree and CPA are preferred.

General Experience: A minimum of eight (8) years relevant experience as a cost analyst or involved in analysis in business-related subject areas such as accounting, finance or economics.

Specialized Experience: At least five (5) years experience in financial cost accounting with demonstrated success in analyzing information systems.

Order Code: 67 SIN 132-51

Senior Financial Analyst ITSI Site: \$115.29 Gov't Site: \$109.53

Duties: Provides financial management planning and execution support. Has knowledge of theories, principles and practices of financial management, including time value analyses, cash flow analyses and cost/benefit and return on investment analyses. Conducts investment analyses or other complex operational analyses. Provides expertise and support in conducting a full range of investment analyses activities, including market surveys, cost analyses, benefits analyses, risk analyses, economic analyses, requirements definitions, schedule development, and tradeoff studies. Supports architecture efforts including economic analyses of architecture alternatives, architecture issues resolutions, and affordability analyses. Classifies and summarizes financial data for the preparation and submission of reports on a recurring basis. Must be able to apply financial analysis to information systems issues.

Education: Bachelor's Degree from an accredited college or university in Economics, Business, Accounting, Finance, or related discipline. A Master's degree and CPA are preferred.

General Experience: At least eight (8) years progressive experience as an analyst or involved in analyst type functions in a business related subject area such as accounting, finance or economics.

Specialized Experience: At least five (5) years of financial management experience with demonstrated ability in analyzing information systems.

Order Code: 68 SIN 132-51
Financial Analyst ITSI Site: \$107.11 Gov't Site: \$101.75

Duties: Must be able to clearly define government financial business practices and Electronic Commerce/Electronic Data Interchange (EC/EDI) opportunities, and incorporate the defined processes into an automated solution that includes relational databases and distributed systems for integration into the government financial business system. Identifies potential problems and solutions through analysis identifying recommended solutions. Must be able to work with functional specialists, automation specialists, Contractors, vendors, and customers to effectively automate the customer's requirements into an automated application. Acts as a focal point to coordinate all disciplines in the recommended solution. Must be able to communicate with both IT and financial oriented individuals to document the flow, recommend opportunities, impact recommendations, and serve as the liaison between the financial specialist and automation specialist that do not have both disciplines. Must be able to apply state-of-the-art applications that will effectively automate financial applications in the most effective manner while adhering to the established Accounting Principals and Practices.

Education: A Bachelor's Degree from an accredited college or university with a major in Finance, Business, or other related technical discipline. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have five (5) years of financial management experience.

Specialized Experience: At least three (3) years of experience in financial management with demonstrated ability in analyzing, designing, and developing automated applications for unique business practices in a fee-for-service environment.

Order Code: 69 SIN 132-51
Senior IT Auditor ITSI Site: \$135.86 Gov't Site: \$129.07

Duties: Identifies information processing and technology risks. Evaluates controls and makes recommendations. Identifies problems and recommends solutions. Reviews the installation and security related controls for a wide variety of computing platforms,

including operating systems, sub-systems, databases and software products used to support the processing environment. Prepares and performs audit tests and evaluates results. Provides documentation of audit tests to facilitate efficient and effective reviews.

Education: CPA required. Bachelor's Degree from an accredited college or university in Accounting, Finance, Business, Computer Science, Information Systems, or related field.

General Experience: At least ten (10) years auditing experience.

Specialized Experience: At least seven (7) years of experience in IT audits. Proficient in generally accepted IT standards, statements and practices and IT security and control practices.

Order Code: 70 SIN 132-51
Senior Auditor ITSI Site: \$122.85 Gov't Site: \$116.71

Duties: Provides third party reviews, ratings and evaluations of IT vendors. Researches corporate philosophy, goals, objectives, and code of ethics and business practices. Provides financial status including, but not limited to: assets, liabilities, operating capital, cash flow, and insurance coverage. Provides financial reports and annual reports. Provides ranking among peers in the IT industry and reputation in the IT industry. Researches customer satisfaction levels and strengths and weaknesses. Provides costing estimations and personnel qualifications and performance ratings. Researches project management results and performance records. Provides legal history and overall performance.

Education: Bachelor's Degree from an accredited college or university in Accounting, Finance, Business or a related field. A CPA is preferred.

General Experience: At least ten (10) years of auditing experience.

Specialized Experience: At least five (5) years experience as an auditor in auditing IT vendors.

Order Code: 71 SIN 132-51
Senior Risk Assessment Consultant ITSI Site: \$155.93 Gov't Site: \$148.13

Duties: Manages the identification and reporting on risk assessments and updates evaluations in order to determine and forecast operational needs and changes. Provides presentations on reporting and operational enhancements and metrics with special focus on variance analysis. Establish risk management policies and procedures, and guidelines on risk limits. Provides fraud expertise on services to internal and external customers. Develops system enhancements and meaningful reporting and operational management reporting tools and web-based tools and programs to manage, prevent, and mitigate risks. Identifies problems and recommends solutions to risk assessments.

Education: Bachelor's Degree from an accredited college or university in a related field. A Master's degree preferred.

General Experience: At least ten (10) years of risk assessment experience.

Specialized Experience: At least six (6) years of experience in IT risk assessment.

Order Code: 72 SIN 132-51

Senior Business Process Consultant ITSI Site: \$150.15 Gov't Site: \$142.64

Duties: Develops business requirements and business processes re-engineering methodologies. Solves application and process related problems by creating detail process and system design specifications; and works with other areas across the business units to support a total solution approach. Communicates business requirements for reports and applications development. Facilitates collaboration within and across business units and across IT functions. Resolves problems and improves business units' technical environments.

Education: Bachelor's Degree from an accredited college or university in Business, Human Resources Management or a related field. An MBA or MPA is preferred.

General Experience: At least eight (8) years experience in business process re-engineering.

Specialized Experience: At least five (5) years of experience in reengineering large scale business processes.

Order Code: 73 SIN 132-51

Senior Group Facilitator ITSI Site: \$83.85 Gov't Site: \$79.66

Duties: Provides assistance in the group decision-making process by intervening to help a group improve its effectiveness and efficiency through enhanced problem identification, problem solutions and decision-making skills. Takes primary responsibility for managing the group process and assists groups to be more effective by improving existing group practices. Guides groups through proven processes and understands basic group dynamics and interrelationships. Intervenes when it is evident that the group process or other factors interfere with a group's ability to accomplish specific goals and objectives.

Education: Bachelor's Degree from an accredited college or university in Education, the Social Sciences, Human Resources, Business or a related field.

General Experience: At least five (5) years of experience as a group facilitator.

Specialized Experience: At least three (3) years of experience as a group facilitator involving technical projects.

Order Code: 74 SIN 132-51**Senior Marketing Consultant** ITSI Site: \$133.61 Gov't Site: \$126.93

Duties: Develops marketing strategies for publications of technology results and achievements. Develops marketing plans and recommends marketing strategies and measurements for the success of the marketing strategies. Provides survey results on IT topics, completes applications for IT awards and develops periodic reports of IT accomplishments, including annual reports or other marketing-related documents.

Education: Bachelor's Degree from an accredited college or university in Marketing, Business, Communications or other related discipline. A Master's degree is preferred.

General Experience: At least eight (8) years of marketing or communications experience.

Specialized Experience: At least five (5) years of experience in technology marketing or a related field.

Order Code: 75 SIN 132-51**Senior Market Research Consultant** ITSI Site: \$133.61 Gov't Site: \$126.93

Duties: Develops marketing and promotion strategies and tactics. Evaluates concepts for advertising campaigns. Develops and manages qualitative market research studies and develops reports. Analyses web site traffic and develops quantitative reports. Reviews marketing campaigns and their impact on web site audience behavior. Develops online survey questionnaires and launches surveys. Performs statistical analyses of responses to online surveys. Conducts various Internet analyses. Develops methodologies for optimum study results.

Education: Bachelor's Degree from an accredited college or university in Marketing, Business, or Statistics. An MBA or Master's Degree in Marketing is preferred.

General Experience: At least eight (8) years of marketing research experience.

Specialized Experience: At least five (5) years of experience in technology marketing or a related field.

Order Code: 76 SIN 132-51**Senior Telecommunications Engineer** ITSI Site: \$135.86 Gov't Site: \$129.07

Duties: Provides engineering and technical support for telecommunications projects and services. Provides designs and applications to insure overall technical integrity. Provides high-level planning for the systems used by telecommunications organizations. Performs process and data modeling for the planning and analyses of automated tools. Provides technical expertise and guidance in engineering techniques and automated support tools.

Provides assistance with planning, design, cost/benefit analyses, assessment of configurations and performance measurements, development, implementation and recommendations for staffing levels for telecommunications systems and processes.

Education: Bachelor's Degree from an accredited college or university in Engineering, Telecommunications, Computer Science, Information Systems or other related scientific or technical discipline. A Master's degree is preferred.

General Experience: At least ten years of telecommunications experience.

Specialized Experience: At least six (6) of experience in commercial and long distance network architectural design and engineering.

Order Code: 77 SIN 132-51

Telecommunications Engineer ITSI Site: \$109.24 Gov't Site: \$103.78

Duties: Responsible for engineering and/or analytical tasks and activities associated with technical areas within the telecom function (e.g., network design, engineering, implementation, diagnostics or operations/user support). Performs complex tasks relating to network monitoring, operations, installation, and/or maintenance for local, off-site, and/or remote locations.

The scope of responsibility for this position includes, but is not limited to, the configuration, deployment, testing, maintenance, monitoring, and trouble-shooting of network components to provide a secure, high performance network. Duties also entail quality assurance and testing of transmission mediums and infrastructure components.

Education: Bachelor's Degree in Computer Science, Information Systems, or other related field or equivalent work experience.

General Experience: Three (3) to five (5) years of IT work experience.

Specialized Experience: Has worked independently or as a part of a team under general supervision and coached more junior technical staff.

Order Code: 78 SIN 132-51

Senior Telecommunications Consultant ITSI Site: \$184.79 Gov't Site: \$175.55

Duties: Identifies problems and recommends solutions for telecommunications organizations. Performs process and data modeling in support of the planning and analyses for using automated tools. Evaluates controls and makes recommendations. Provides planning, analyses, strategic planning, design, development, implementation and post-implementation for telecommunications projects.

Education: Bachelor's Degree from an accredited college or university with a major in Telecommunications, Computer Science, Information Systems, Engineering or a related field. Master's degree preferred.

General Experience: At least ten (10) years telecommunications experience.

Specialized Experience: At least seven (7) years experience as a consultant or engineer in the telecommunications field in the private or public sector.

Order Code: 79 SIN 132-51

Telecommunications Systems Analyst ITSI Site: \$125.57 Gov't Site: \$119.29

Duties: Must be capable of planning, analysis, design, development, and maintenance of operations support systems used by telecommunications organizations. Must be capable of performing business systems planning, information planning, and analysis in support of telecommunications support functions, including billing, trouble ticket management, service order entry, and/or configuration management. Performs process and data modeling in support of the planning and analysis efforts using both manual and automated tools. Provides technical guidance in software engineering techniques and automated support tools.

Education: A Bachelor's Degree from an accredited college or university with a major in Telecommunications, Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree is preferred. A Master's Degree in one of the above disciplines equals one year specialized and two years general experience.

General Experience: Must have five (5) years of experience in engineering, systems analysis, design and programming.

Specialized Experience: At least two (2) years of experience in functional and data requirement analysis, systems analysis and design, programming, program design of billing, trouble ticket management, service order entry, and/or configuration management systems supporting operations of large telecommunications support organizations.

Order Code: 80 SIN 132-51

Network Manager ITSI Site: \$121.90 Gov't Site: \$115.80

Duties: Performs a variety of network management functions in support of MIS services related to the operation, performance, or availability of data communications networks. Modifies command language programs, network start up files, assigns/re-assigns network device logical, analyzes network performance and recommends adjustments to wide variety of complex network management functions with responsibility for overall performance and availability of networks. LAN/WAN consultant skilled in network analysis, integration and tuning. Experience with cable/LAN meters, protocol analyzers, Simple Network Management Protocol (SNMP) and Remote Monitoring (RMON) based software products. Knowledge of Ethernet, FDDI and high speed WANs, routers, bridges, and switches. Analyze client LANs/WANs, isolate source of problems, and

recommend reconfiguration and implementation of new network hardware to increase performance. Working knowledge of network operating systems. Conducts load balancing efforts to achieve optimum device utilization and network performance. Manages network Email functions. Establishes mailboxes and monitors mail performance on the network. Coordinates with communications engineering to resolve hardware problems. Works with customer and operations staff in scheduling preventative and emergency maintenance activities.

Education and Other Requirements: A Bachelor's degree from an accredited college or university with a major in Computer Science, Information Technology, Engineering, or a related discipline. If applicable, shall be certified as network engineer for the specific network operating system as defined in the task request. The certification criteria are determined by the network operating system vendor. An additional year of specialized experience may be substituted for the required education.

General Experience: Twelve years experience in a computer-related field.

Specialized Experience: Ten years experience in one or more of the following areas: data communications engineering, data communications hardware or software analysis, network administration or management, or have data communication equipment installation and maintenance. Knowledge of cable including FDDI, FOIRL, and 10Base T. Particularly desirable is experience working with IBM's SNA with knowledge of the MVS operating system and SNA protocols.

Order Code: 81 SIN 132-51

Senior Network Engineer ITS Site: \$109.30 Gov't Site: \$103.83

Duties: Responsible for the design and implementation of large data communications or telecommunications networks. Plans and monitors the installation of communications circuits. Manage and monitor local area networks and associated equipment (e.g., bridges, routers, modem pools, and gateways) Conducts short and long-term plan to meet communications requirements. Responsible for the design and implementation of LANs/WANs using hub switching and router technology. Performs hardware/software analyses to provide comparative data of performance characteristics and suitability within the existing systems environment. Prepares tradeoff studies and evaluations for vendor equipment. Generates network monitoring/performance report, for LAN/WAN utilization studies. Recommends network design changes/enhancements for improved system availability and performance.

Education: A Bachelor's degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering or other related scientific or technical discipline. If applicable, shall be certified as network engineer for the specific network operating system as defined in the task request. The certification criteria are determined by the network operating system vendor. An additional year of specialized experience may be substituted for the required education.

General Experience: Nine years experience in a computer-related field.

Specialized Experience: Seven years of progressive experience in planning, designing, implementation, and analyzing data or telecommunications networks. Must have experience with network analysis/management tools and techniques and be familiar with Personal Computers (PCs) in a client/server environment. Must be familiar with IT technology and long distance and local carrier management.

Order Code: 82 SIN 132-51

Junior Network Engineer ITSI Site: \$89.24 Gov't Site: \$84.77

Duties: Perform similar duties as directed or instructed by the senior network engineer. Conduct studies pertaining to network configuration and monitor traffic patterns such as protocols and peak usage. Stays current with technological changes.

Education: A Bachelor's degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering or other related scientific or technical discipline. An additional year of specialized experience may be substituted for the required education.

General Experience: Five years experience in a computer-related field

Specialized Experience: Three years of progressive experience in planning, designing, implementation, and analyzing data or telecommunications networks.

Order Code: 83 SIN 132-51

Network Administrator ITSI Site: \$73.05 Gov't Site: \$69.40

Duties: Performs a variety of network management functions related to the operation, performance or availability of data communications networks. Experience with cable/LAN meters, protocol analyzers, SNMP' and RMON based software products. Knowledge of Ethernet, FDDI and high speed WANs and routers. Analyze client LANs/WANs, isolate source of problems, and recommend reconfiguration and implementation of new network hardware to increase performance. Advanced knowledge of network operating systems. Modifies command language programs, network start up files, assigns/reassigns network device logicals, participates in load balancing efforts throughout the network to achieve optimum device utilization and performance. Establishes new user accounts on the network granting access to required network files and programs. Manages network Email functions. Establishes mailboxes and monitors mail performance on the network. Troubleshoots network/user problems, presents resolutions for implementation. Prepares a variety of network resource reports.

Education and other Requirements: An Associate's degree from an accredited college or university in Computer Science, Information Systems, Engineering or a related field, or two years of college or university study in Computer Science, Information Systems, Engineering or a related field. If applicable, should be certified as a network administrator for a specific network operating system as defined in the task request.

Certification criteria is determined by the network operating system vendor. An additional year of specialized experience may be substituted for the required education.

General Experience: Two years experience in a computer-related field.

Specialized Experience: One year of experience in one or more of the following areas: data communications engineering, data communications hardware or software analysis, network administration or management, data communications equipment installation and maintenance, or computer systems administration and management.

Order Code: 84 SIN 132-51

Senior Network Technician ITSI Site: \$62.47 Gov't Site: \$59.35

Duties: Adds or exchanges externally connected PC accessories and data communications equipment. Troubleshoots LANs/WANs and provides problem resolution for PC and data communications hardware. Adds or replaces boards, batteries, disks drives, and other PC components. Installs cabling for networks such as LANs and WANs. Attaches, detaches, or exchanges LAN cabling to workstations, servers, network devices, telecommunications and data communications equipment. Works independently, may provide supervision and guidance to 2 or more network technicians.

Education: An Associate's degree from an accredited college or university in Computer Science, Information Systems, Engineering or a related field; or Technical school certificate of completion in the data communications field including cable installation; or the equivalent military training. An additional year of specialized experience may be substituted for the required education.

General Experience: Seven years experience in a computer-related field.

Specialized Experience: Five years experience in the following areas: Installation, operation, and maintenance of data communication networks and devices

Order Code: 85 SIN 132-51

Junior Network Technician ITSI Site: \$51.75 Gov't Site: \$49.17

Duties: Perform similar duties as directed or instructed by the senior network engineer. Adds or exchanges externally connected PC accessories and data communications equipment including cables, boards, batteries, disks drives, and other PC components. Attaches, detaches, or exchanges LAN cabling to workstations, servers, network devices, telecommunications and data communications equipment.

Education: An Associate's degree from an accredited college or university in Computer Science, Information Systems, Engineering or a related field; or Technical school certificate of completion in the data communications field including cable installation, or the equivalent military training. An additional year of specialized experience may be substituted for the required education.

General Experience: Three years experience in a computer-related field.

Specialized Experience: A minimum of two years of experiences installing and maintaining shared resources for communication networks and devices.

Order Code: 86 SIN 132-51

Network Security Engineer ITSI Site: \$151.20 Gov't Site: \$143.64

Duties: Designs, develops, engineers, and implements solutions for projects such as biometrics, smart cards, Secure remote access, VPN, Intrusion detection, port scanning, web security and vulnerability assessments and remediation.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. A Master's Degree in one of the above disciplines equals one-year specialized and two years general experience. An additional year of specialized experience may be substituted for the required education.

General Experience: This position requires a minimum of eight years of computer-related experience.

Specialized Experience: At least five years of specialized experience in defining computer security requirements for high-level applications, evaluation of approved security product capabilities, and security management.

Order Code: 87 SIN 132-51

Geographic Information Systems (GIS) Technician II ITSI Site: \$84.02 Gov't Site: \$79.81

Duties: Performs systems analysis, design, programming, documentation, and implementation of complex GIS applications. Develops logical and physical geo-database designs; implements geo-databases, establishes recovery plans, and monitors geo-database performance. Write programs and develop user interfaces, menus, and macro-level commands to meet user needs in addition to performing simple spatial analyses and producing reports according to customer specifications. Assist in the development of geographic information systems which may link parcel maps or orthophotos with environmental data, historic data, transportation data and health data to produce maps or quantify information about the impacts of features on parcel ownership. Conducts geographic information system (GIS) program activities, utilizing GIS hardware and software to produce maps, spatial databases and thematic data (such as wetlands, road centerlines, cadastre, and historic sites). Creates, adjusts, corrects, converts and distributes base maps and thematic data. Digitize and maintain spatial databases of Maryland information; document procedures, validate data for accuracy and completeness, complete approved metadata forms and produce maps of the resulting

information. Evaluate information and data from outside sources to determine the quality of the data. Provide geographic location coordinates from the GIS to facilitate spatial analysis and data manipulation, calculate distances and area of features and interpret legal descriptions and certify changes in boundary lines. Act as a “consultant” to internal customers during their use, development and quality assessment of spatial databases.

Education: A Bachelor’s Degree from an accredited college or university in Geography, GIS Technology, Cartography, Computer Science, or related field with at least 9 credit hours in courses specifically related to GIS operation/management. A Masters Degree from an accredited college or university in Geography, GIS Technology, Cartography, Computer Science, or related field with at least 9 undergraduate credit hours in courses specifically related to GIS operation/management is preferred.

Experience: A minimum of three (3) years of professional experience in GIS, cartography, CADD, or a related field.

Order Code: 88 SIN 132-51

Geographic Information Systems Technician I ITSI Site: \$61.31 Gov’t Site: \$58.24

Duties: Conducts geographic information system (GIS) program activities, utilizing GIS hardware and software to produce maps, spatial databases and thematic data (such as wetlands, road centerlines, cadastre, and historic sites). Creates, adjusts, corrects, converts and distributes base maps and thematic data. Digitize and maintain spatial databases of Maryland information; document procedures, validate data for accuracy and completeness, complete approved metadata forms and produce maps of the resulting information. Evaluate information and data from outside sources to determine the quality of the data. Provide geographic location coordinates from the GIS to facilitate spatial analysis and data manipulation, calculate distances and area of features and interpret legal descriptions and certifies changes in boundary lines.

Education: Bachelor’s degree from an accredited college or university in Geography, GIS Technology, Cartography, Computer Science, Library Science or related field with at least 9 credit hours in courses specifically related to GIS operation/management.

Experience: A minimum of two (2) years of successful experience at the equivalent of the GIS Trainee level.

Order Code: 89 SIN 132-51

Geographic Information Systems Technician Trainee ITSI Site: \$48.20 Gov’t Site: \$45.78

Duties: Conducts geographic information system (GIS) program activities, utilizing GIS hardware and software to produce maps, spatial databases and thematic data (such as wetlands, road centerlines, cadastre, and historic sites). Creates, adjusts, corrects, converts and distributes base maps and thematic data. Digitize and maintain spatial

databases of Maryland information; document procedures, validate data for accuracy and completeness, complete approved metadata forms and produce maps of the resulting information. Evaluate information and data from outside sources to determine the quality of the data. Provide geographic location coordinates from the GIS to facilitate spatial analysis and data manipulation, calculate distances and area of features and interpret legal descriptions and certifies changes in boundary lines.

Education: A high school diploma or equivalent.

Experience: One year of professional experience related to GIS, cartography, CADD, or a related field.

Order Code: 90 SIN 132-51

Geographic Information Systems Analyst ITSI Site: \$84.79 Gov't Site: \$80.55

Duties: Write programs and develop user interfaces, menus, and macro-level commands to meet user needs in addition to performing simple spatial analyses and producing reports according to customer specifications. Assist in the development of geographic information systems which may link parcel maps or orthophotos with environmental data, historic data, transportation data and health data to produce maps or quantify information about the impacts of features on parcel ownership. Conducts geographic information system (GIS) program activities, utilizing GIS hardware and software to produce maps, spatial databases and thematic data (such as wetlands, road centerlines, cadastre, and historic sites). Creates, adjusts, corrects, converts and distributes base maps and thematic data. Digitize and maintain spatial databases of Maryland information; document procedures, validate data for accuracy and completeness, complete approved metadata forms and produce maps of the resulting information. Evaluate information and data from outside sources to determine the quality of the data. Provide geographic location coordinates from the GIS to facilitate spatial analysis and data manipulation, calculate distances and area of features and interpret legal descriptions and certify changes in boundary lines. Act as a “consultant” to internal customers during their use, development and quality assessment of spatial databases.

Education: A Bachelor’s Degree from an accredited college or university in Geography, GIS Technology, Cartography, Computer Science, or related field with at least 9 credit hours in courses specifically related to GIS operation/management. A Masters Degree from an accredited college or university in Geography, GIS Technology, Cartography, Computer Science, or related field with at least 9 undergraduate credit hours in courses specifically related to GIS operation/management is preferred.

Experience: A minimum of two (2) years of professional experience is required in GIS, cartography, CADD, or a related field without an appropriate college degree.

Order Code: 91 SIN 132-51

Geographic Information Systems Specialist ITSI Site: \$73.05 Gov’t Site: \$69.40

Duties: Conducts geographic information system (GIS) program activities, utilizing GIS hardware and software to produce maps, spatial databases and thematic data (such as wetlands, road centerlines, cadastre, and historic sites). Creates, adjusts, corrects, converts and distributes base maps and thematic data. Digitize and maintain spatial databases of Maryland information; document procedures, validate data for accuracy and completeness, complete approved metadata forms and produce maps of the resulting information. Evaluate information and data from outside sources to determine the quality of the data. Provide geographic location coordinates from the GIS to facilitate spatial analysis and data manipulation, calculate distances and area of features and interpret legal descriptions and certify changes in boundary lines. Act as a “consultant” to internal customers during their use, development and quality assessment of spatial databases.

Education: 1) A Bachelor’s Degree from an accredited college or university in Geography, GIS Technology, Cartography, Computer Science, or related field with at least 9 credit hours in courses specifically related to GIS operation/management.

Experience: Two (2) years of professional experience is required in GIS, cartography, CADD, or a related field without the appropriate college degree.

Order Code: 92 SIN 132-51

Archeologist /Historic Preservation Specialist ITSI Site: \$115.29 Gov't Site: \$

Duties: Responsible for conducting Historic Properties Survey investigations, identifying historic properties, evaluate the effects of the undertaking to historic properties. Provide visual impact assessment and expert application of the Criteria of Adverse Effect on historic properties and Rural Historic Landscapes within the Area of Potential Effect.

Education: Bachelor's Degree from an accredited college or university in Architectural History, Art History, Historic Preservation or related field or 5 (five) years of equivalent experience in a related field. A Master's Degree is preferred.

General Experience: Experience performing full-time experience in research, writing, or teaching in American architectural history or restoration architecture with an academic institution, historical organization or agency, museum, or other professional institution; or substantial contribution through research and publication to the body of scholarly knowledge in the field of American architectural history.

Order Code: 93 SIN 132-51

Architectural Historian ITSI Site: \$102.76 Gov't Site: \$97.62

Duties: Responsible for conducting Historic Properties Survey investigations, identifying historic properties, evaluate the effects of the undertaking to historic properties. Provide visual impact assessment and expert application of the Criteria of Adverse Effect on historic properties and Rural Historic Landscapes within the Area of Potential Effect.

Education: Bachelor's Degree from an accredited college or university in Architectural History, Art History, Historic Preservation or related field or five (5) years of equivalent experience in a related field. A Master's Degree is preferred.

General Experience: Experience performing full-time experience in research, writing, or teaching in American architectural history or restoration architecture with an academic institution, historical organization or agency, museum, or other professional institution; or substantial contribution through research and publication to the body of scholarly knowledge in the field of American architectural history.

Order Code: 94 SIN 132-51

Wireless Systems Analyst ITSI Site: \$87.23 Gov't Site: \$82.86

Duties: Define and develop Key Performance Indicators to measure Quality of Service of wireless voice & data services and end-to-end applications that run on top of wireless data bearers. Design and develop post-processing engines that extract and transform raw low-level performance data into aggregate metrics; automate and parameterize the process for large scale

processing in an efficient and timely manner; build-in QC check-points for end-to-end quality verification. Analyze, trouble-shoot, and investigate normal and abnormal use-cases for voice and data services; trace anomalies to corresponding impact on key metrics.

Education: A Bachelor's degree in Electrical Engineering, Computer Science, or related discipline is required. A graduate degree in the same is preferred.

General Experience: Minimum of 4 years of direct experience in development for wireless devices or wireless network equipment is required.

Specialized Experience: Detailed in-depth understanding of wireless systems architecture, protocols, and standards is required. Detailed knowledge of key wireless applications and services, including Voice, SMS, MMS, WAP/HTTP, and Push-To-Talk (PTT) is desired. Strong technical ability, communication skills, and ability to quickly learn new technologies are required.

Order Code: 95 SIN 132-51

Radio Frequency Engineer ITSI Site: \$107.61 Gov't Site: \$102.23

Duties: The RF Engineer position is responsible for several components of the new site construction process as well as monitoring and maintaining the performance of existing sites. The components of the new construction process include: creating a search area, selecting a site candidate, filing forms with the FAA and FCC, ordering the necessary site hardware, filing extension agreements with neighboring carriers and frequency / PN planning. This position is also responsible for RF coverage, radio talk-path capacity, and organizing the logistics of cell site additions. The position also assists with budget preparations and performance troubleshooting.

Education: This position requires a 4-year college program with a Bachelor's Degree in Radio Engineering or Electrical Engineering or related field or equivalent vocational education, training, and experience with formal training in use of relevant administrative & industry specific tools (i.e. computer software and Internet).

Experience: Point-to-point microwave systems and path analysis is mandatory. The following skills are desirable: 1) effective communication skills, 2) willingness to work in a team environment, 3) planning/organizational skills, 4) goal orientation, and 5) experience in radio communications.

Order Code: 96 SIN 132-51

Systems Engineer ITSI Site: \$112.50 Gov't Site: \$106.88

Duties: Must be capable of analyzing information requirements. Evaluates system problems of workflow, organization, and planning. Develops appropriate corrective action.

Education: A Bachelor's Degree from an accredited college or university with a major in Computer Science, Information Systems, Engineering, Business, or other related scientific or

technical discipline or three years of equivalent experience in a related field. A Master's Degree in one of the above disciplines equals one-year specialized and two years general experience. An additional year of specialized experience may be substituted for the required education.

General Experience: Must have three years of experience in systems engineering.

Specialized Experience: At least one year of experience in analytical problem solving of workflow, organization and planning.

Order Code: 97 SIN 132-51

Licensed Master Electrician ITSI Site: \$81.45 Gov't Site: \$77.38

Duties: Identify malfunctions in electrical and electro-mechanical instruments. Repair non-functioning electrical and electro-mechanical instruments. Calibrate scientific and industrial instruments. Use established maintenance procedures for scientific and industrial instruments. Test input/output parameters of electrical/mechanical devices. Assemble electrical and electro-mechanical devices. Identify electrical/electro-mechanical components, devices or systems in accordance with predetermined specifications. Present technical information in oral, written and graphic form, including use of microcomputers to manipulate content and access information.

Education: An Associate's degree from an accredited college or university in Electronics Technology or a related field; or Technical school certificate of completion in the electrical field; or the equivalent military training. An additional year of specialized experience may be substituted for the required education. Must have a master electrician license from the Maryland Board of Master Electricians.

General Experience: Seven years experience in the electronics or related field.

Specialized Experience: Five years experience in the following areas: design, construction, testing, installation, maintenance and repair of electronic systems.

Order Code: 98 SIN 132-51

Journeyman Electrician ITSI Site: \$59.97 Gov't Site: \$56.97

Duties: Identify malfunctions in electrical and electro-mechanical instruments. Repair non-functioning electrical and electro-mechanical instruments. Calibrate scientific and industrial instruments. Use established maintenance procedures for scientific and industrial instruments. Test input/output parameters of electrical/mechanical devices. Assemble electrical and electro-mechanical devices. Identify electrical/electro-mechanical components, devices or systems in accordance with predetermined specifications. Present technical information in oral, written and graphic form, including use of microcomputers to manipulate content and access information.

Education: An Associate's degree from an accredited college or university in Electronics Technology or a related field; or Technical school certificate of completion in the electrical field; or the equivalent military training. An additional year of specialized experience may be

substituted for the required education. Must have a master electrician license from the Maryland Board of Master Electricians.

General Experience: Five years experience in the electronics or related field.

Specialized Experience: Three years experience in the following areas: design, construction, testing, installation, maintenance and repair of electronic systems.

Order Code: 99 SIN 132-51

Electricians Helper ITSI Site: \$44.19 Gov't Site: \$41.99

Duties: Performs task assigned by the Foreman or Electrician with a minimum of supervision such as: terminate junction boxes; install required conduit and wiring including branch and feeder, above and below ground; install fixture connections and rough-ins; under supervision of the Foreman or an Electrician, operates a variety of electrical testing equipment in locating and determining types of electrical malfunctions; demonstrates basic knowledge of plans, drawings, specifications and work orders; and, conducts all tasks in a safe and efficient manner.

Education: A high school diploma or equivalent. An Associate's degree from an accredited college or university in Electronics Technology or a related field; or Technical school certificate of completion in the electrical field; or the equivalent military training is preferred. An additional year of specialized experience may be substituted for the required education. Must have a master electrician license from the Maryland Board of Master Electricians.

General Experience: One years experience in the electronics or related field.

Specialized Experience: Six months experience in the following areas: design, construction, testing, installation, maintenance and repair of electronic systems.

Order Code: 100 SIN 132-51

Facilities Engineering Manager ITSI Site: \$73.81 Gov't Site: \$70.12

Duties: Provides management and technical direction for facility, systems, and equipment repair, operation and maintenance. Provides oversight, strategic direction and technical support for the engineering, operation and maintenance of systems and subsystems.

Education: A Bachelor's degree from an accredited college or university in civil, mechanical, industrial or facilities management engineering or other related field.

General Experience: This position typically requires 10 years of experience in facilities management or related field.

Order Code: 101 SIN 132-51

Facility Operations Engineer ITSI Site: \$68.73 Gov't Site: \$65.30

Duties: Provides engineering support for facility and infrastructure projects. Support includes project development, design, bid proposal, schedule development, and technical support. May also manage and direct personnel in the operation, maintenance and repair of facilities, systems

and institutional equipment. Includes building, heating, ventilation and air conditioning (HVAC) systems, boiler systems, generator systems and electrical systems.

Education: A Bachelor's degree from an accredited college or university in civil, mechanical, electrical, industrial or facilities management engineering or other related field.

General Experience: This position typically requires 8 years of experience in facilities management or related field.

Order Code: 102 SIN 132-51

Stationary Engineer ITSI Site: \$71.48 Gov't Site: \$67.91

Duties: Operates and maintains one or more engineering systems which provides a facility the services to function in a variety of service areas, such as: Heating and Air Conditioning Refrigeration, Emergency Power Generation, Uninterrupted Power Supply (UPS) systems, Electrical Switchboard systems, Fuel Distribution and Treatment systems, and Water Treatment and Boiler Heating systems. Observes system's gauges, meters, charts for proper system's operations. Performs preventive and corrective maintenance on system's components.

Education: A Bachelor's degree from an accredited college or university in Electrical, Mechanical, or Industrial Engineering or other related field.

General Experience: This position typically requires 8 years of experience in industrial engineering or related field.

Order Code: 103 SIN 132-51

Lead Facilities Specialist ITSI Site: \$58.17 Gov't Site: \$55.26

Duties: Oversees and directs daily activities involving the installation, operation, maintenance, and repair of facilities, institutional equipment and systems. This may include, but is not limited to high and low pressure steam plant boilers; security and fire systems; portable and installed generator sets, automatic transfer sets, and uninterruptible power supplies, batteries and associated electrical wiring/components; air handling units, pumps, exchangers and cooling towers; and, carpentry, painting, plumbing, electrical and mechanical activities. May perform various mechanical functions associated with diagnostics, dismantling, and repair of machines and mechanical equipment.

Education: High School diploma or equivalent, and knowledge of OSHA general safety standards related to work involving electrical and mechanical tasks in an industrial environment

General Experience: This position typically requires 8 years of experience in facilities work or related field.

Order Code: 104 SIN 132-51

Facilities Specialist Level III ITSI Site: \$47.87 Gov't Site: \$45.48

Duties: Performs installation, operation, maintenance, and repair of facilities, institutional equipment and systems. This may include, but is not limited to high and low pressure steam plant boilers; security and fire systems; portable and installed generator sets, automatic transfer sets, ancillary power distribution systems and uninterruptible power supplies, batteries and associated electrical wiring/components; air handling units, pumps, exchangers and cooling towers; and, carpentry, painting, plumbing, electrical and mechanical activities. May perform various mechanical functions associated with diagnostics, dismantling, and repair of machines and mechanical equipment.

Education: High School diploma or equivalent required.

General Experience: This position typically requires 5 years of experience in facilities work or related field.

Order Code:105 SIN 132-51

Facilities Specialist Level II ITSI Site: \$40.95 Gov't Site: \$38.91

Duties: Performs installation, operation, maintenance, and repair of facilities, institutional equipment and systems. This may include, but is not limited to high and low pressure steam plant boilers; security and fire systems; portable and installed generator sets, automatic transfer sets, ancillary power distribution systems, and uninterruptible power supplies, batteries and associated electrical wiring/components; air handling units, pumps, exchangers and cooling towers; and, carpentry, painting, plumbing, electrical and mechanical activities. May perform various mechanical functions associated with diagnostics, dismantling, and repair of machines and mechanical equipment.

Education: High School diploma or equivalent required.

General Experience: This position typically requires 2 years of related experience in facilities work or related field.

Order Code: 106 SIN 132-51

Facilities Specialist Level I ITSI Site: \$36.63 Gov't Site: \$34.80

Duties: Performs installation, operation, maintenance, and repair of facilities, institutional equipment and systems. This may include, but is not limited to high and low pressure steam plant boilers; security and fire systems; portable and installed generator sets, automatic transfer sets, and uninterruptible power supplies, batteries and associated electrical wiring/components; air handling units, pumps, exchangers and cooling towers; and, carpentry, painting, plumbing, electrical and mechanical activities. May performs various mechanical functions associated with diagnostics, dismantling, and repair of machines and mechanical equipment.

Education: High School diploma or equivalent required.

General Experience: This position typically requires 1 year of experience in facilities work or related field.

Order Code:107 SIN 132-51

Facility Operations Supervisor ITSI Site: \$52.85 Gov't Site: \$50.20

Duties: Supervises personnel engaged in the operation, maintenance and repair of facilities, systems, and equipment.

Education: Associate's degree (ASCE, ASEE, ASET, ASME or other related field) or equivalent.

General Experience: This position typically requires 8 years of related experience in facility operations or related field.

Order Code: 108 SIN 132-51
Operator Level II ITSI Site: \$32.80 Gov't Site: \$31.16

Duties: Processes, schedules, coordinates, and tracks maintenance and repair work orders involving, buildings, systems, and infrastructure.

Education: High School Diploma or equivalent required.

General Experience: This position typically requires 3 years of experience involving civil engineering, and maintenance and repair of facilities, mechanical systems, and equipment or related field.

Order Code: 109 SIN 132-51
Operator Level I ITSI Site: \$27.82 Gov't Site: \$26.42

Duties: Processes, schedules, coordinates, and tracks maintenance and repair work orders involving, buildings, systems, and infrastructure.

Education: High School Diploma or equivalent required.

General Experience: This position typically requires 6 months of experience involving civil engineering, and maintenance and repair of facilities, mechanical systems, and equipment or related field.

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IT SERVICES PRICING MATRIX

Table 1-2 Sin 132-51 Pricing Matrix for IT Services

Order Number	Labor Category	ITSI Site	Gov't Site
1	Program Manager	\$151.20	\$143.64
2	Project Manager	\$133.61	\$126.93
3	Senior Subject Matter Expert	\$184.79	\$175.55
4	Subject Matter Expert	\$150.15	\$142.64
5	Sr. Comp Software Integration Analyst	\$135.86	\$129.07
6	Sr. Computer Specialist	\$122.85	\$116.71
7	Computer Specialist	\$108.68	\$103.24
8	Senior Computer Systems Analyst	\$121.37	\$115.31
9	Junior Computer Systems Analyst	\$69.36	\$65.90
10	Applications Programmer	\$73.05	\$69.40
11	Applications Development Expert	\$150.15	\$142.64
12	Senior Computer Systems Programmer	\$113.40	\$107.73
13	Computer Systems Programmer	\$94.10	\$89.39
14	Senior Computer Programmer	\$84.02	\$79.81
15	Junior Computer Programmer	\$61.31	\$58.24
16	Advanced Tech Senior Applications Dev	\$122.85	\$116.71
17	Advanced Tech Applications Dev	\$93.38	\$88.71
18	Sr. Information Engineer	\$115.29	\$109.53
19	Information Engineer	\$102.06	\$96.96
20	Senior IT Professional	\$135.86	\$129.07
21	Database Manager	\$93.38	\$88.71
22	Senior Database Management Specialist	\$90.75	\$86.21
23	Junior Database Management Specialist	\$78.81	\$74.87
24	Quality Assurance Manager	\$80.51	\$76.49
25	Senior Quality Assurance Consultant	\$146.39	\$139.07
26	Quality Assurance Specialist	\$70.58	\$67.05
27	Testing Specialist	\$69.36	\$65.90
28	Training Specialist/Instructor	\$73.05	\$69.40
29	Senior Systems Engineer	\$84.79	\$80.55
30	Systems Engineer	\$69.36	\$65.90
31	Software Engineer	\$72.66	\$69.02
32	Senior Interdisciplinary Engineer	\$135.86	\$129.07
33	Interdisciplinary Engineer	\$122.85	\$116.71
34	Computer Operations Center Specialist	\$94.10	\$89.39
35	Computer Operations Research Analyst	\$73.09	\$69.44
36	Senior Operations Research Analyst	\$122.85	\$116.71
37	Senior Systems Analyst	\$84.79	\$80.55
38	Senior Information Technology Architect	\$150.15	\$142.64
39	Senior Information Technology Planner	\$155.93	\$148.13
40	Senior Application Architect	\$135.86	\$129.07
41	Senior Computer Operator	\$74.75	\$71.02

42	Computer Operator	\$45.80	\$43.52
43	Office Automation Specialist	\$27.11	\$25.75
44	Help Desk Manager	\$74.75	\$71.02
45	Senior Help Desk Specialist	\$52.41	\$49.79
46	Junior Help Desk Specialist	\$45.92	\$43.62
47	Systems Administrator	\$72.65	\$69.01
48	Senior Comp Security Sys Specialist	\$151.20	\$143.64
49	Comp Security Sys Specialist	\$108.68	\$103.24
50	Data Security Specialist	\$84.02	\$79.81
51	Systems Security Specialist	\$115.29	\$109.53
52	INFOSEC Engineer	\$135.86	\$129.07
53	Systems Security Research Analyst	\$62.47	\$59.35
54	Research Analyst	\$43.25	\$41.09
55	Documentation Specialist	\$65.09	\$61.83
56	Technical Writer/Editor	\$63.83	\$60.63
57	Project Control Specialist	\$51.75	\$49.17
58	Program Administration Specialist	\$59.97	\$56.97
59	Internet/Intranet Site Developer Senior	\$79.50	\$75.52
60	Internet/Intranet Site Developer Junior	\$60.11	\$57.11
61	Internet/Web Architect	\$102.06	\$96.96
62	Computer Graphic Illustrator	\$51.75	\$49.17
63	Senior Systems Architect	\$115.29	\$109.53
64	Systems Design Architect	\$94.10	\$89.39
65	Systems Design Engineer	\$108.68	\$103.24
66	Senior Cost Accountant	\$89.74	\$85.25
67	Senior Financial Analyst	\$115.29	\$109.53
68	Financial Analyst	\$107.11	\$101.75
69	Senior IT Auditor	\$135.86	\$129.07
70	Senior Auditor	\$122.85	\$116.71
71	Senior Risk Assessment Consultant	\$155.93	\$148.13
72	Senior Business Process Consultant	\$150.15	\$142.64
73	Senior Group Facilitator	\$83.85	\$79.66
74	Senior Marketing Consultant	\$133.61	\$126.93
75	Senior Market Research Consultant	\$133.61	\$126.93
76	Senior Telecommunications Engineer	\$135.86	\$129.07
77	Telecommunications Engineer	\$109.24	\$103.78
78	Senior Telecommunications Consultant	\$184.79	\$175.55
79	Telecommunications Systems Analyst	\$125.57	\$119.29
80	Network Manager	\$121.90	\$115.80
81	Senior Network Engineer	\$109.30	\$103.83
82	Junior Network Engineer	\$89.24	\$84.77
83	Network Administrator	\$73.05	\$69.40
84	Senior Network Technician	\$62.47	\$59.35
85	Junior Network Technician	\$51.75	\$49.17
86	Network Security Engineer	\$151.20	\$143.64
87	Geographic Information Systems Technician II	\$84.02	\$79.81
88	Geographic Information Systems Technician I	\$61.31	\$58.24
89	Geographic Information Systems Technician Trainee	\$48.20	\$45.78

90	Geographic Information Systems Analyst	\$84.79	\$80.55
91	Geographic Information Systems Specialist	\$73.05	\$69.40
92	Archeologist/Historic Preservation Specialist	\$115.29	\$109.53
93	Architectural Historian	\$102.76	\$97.62
94	Wireless Systems Analyst	\$87.23	\$82.86
95	Radio Frequency Engineer	\$107.61	\$102.23
96	Systems Engineer	\$112.50	\$106.88
97	Licensed Master Electrician	\$81.45	\$77.38
98	Journeyman Electrician	\$59.97	\$56.97
99	Electricians Helper	\$44.19	\$41.99
100	Facilities Engineering Manager	\$73.81	\$70.12
101	Facility Operations Engineer	\$68.73	\$65.30
102	Stationary Engineer	\$71.48	\$67.91
103	Lead Facilities Specialist	\$58.17	\$55.26
104	Facilities Specialist Level III	\$47.87	\$45.48
105	Facilities Specialist Level II	\$40.95	\$38.91
106	Facilities Specialist Level I	\$36.63	\$34.80
107	Facility Operations Supervisor	\$52.85	\$50.20
108	Operator Level II	\$32.80	\$31.16
109	Operator Level I	\$27.82	\$26.42

BPA NUMBER _____

(CUSTOMER NAME)
BLANKET PURCHASE AGREEMENT

Pursuant to GSA Federal Supply Schedule Contract Number(s) _____, Blanket Purchase Agreements, the Contractor agrees to the following terms of a Blanket Purchase Agreement (BPA) EXCLUSIVELY WITH (Ordering Agency):

(1) The following contract items can be ordered under this BPA. All orders placed against this BPA are subject to the terms and conditions of the contract, except as noted below:

MODEL NUMBER/PART NUMBER	*SPECIAL BPA DISCOUNT/PRICE
_____	_____
_____	_____
_____	_____

(2) Delivery:

DESTINATION	DELIVERY SCHEDULES / DATES
_____	_____
_____	_____
_____	_____

(3) The Government estimates, but does not guarantee, that the volume of purchases through this agreement will be _____.

(4) This BPA does not obligate any funds.

(5) This BPA expires on _____ or at the end of the contract period, whichever is earlier.

(6) The following office(s) is hereby authorized to place orders under this BPA:

OFFICE	POINT OF CONTACT
_____	_____
_____	_____
_____	_____

(7) Orders will be placed against this BPA via Electronic Data Interchange (EDI), FAX, or paper.

(8) Unless otherwise agreed to, all deliveries under this BPA must be accompanied by delivery tickets or sales slips that must contain the following information as a minimum:

- (a) Name of Contractor;
- (b) Contract Number;
- (c) BPA Number;
- (d) Model Number or National Stock Number (NSN);
- (e) Purchase Order Number;
- (f) Date of Purchase;

(g) Quantity, Unit Price, and Extension of Each Item (unit prices and extensions need not be shown when incompatible with the use of automated systems; provided, that the invoice is itemized to show the information); and

(h) Date of Shipment.

(9) The requirements of a proper invoice are specified in the Federal Supply Schedule contract. Invoices will be submitted to the address specified within the purchase order transmission issued against this BPA.

(10) The terms and conditions included in this BPA apply to all purchases made pursuant to it. In the event of an inconsistency between the provisions of this BPA and the Contractor's invoice, the provisions of this BPA will take precedence.

“CONTRACTOR TEAM ARRANGEMENTS”

Federal Supply Schedule Contractors may use “Contractor Team Arrangements” (see FAR 9.6) to provide solutions when responding to a customer agency requirements.

These Team Arrangements can be included under a Blanket Purchase Agreement (BPA). BPAs are permitted under all Federal Supply Schedule contracts.

Orders under a Team Arrangement are subject to terms and conditions of the Federal Supply Schedule Contract.

Participation in a Team Arrangement is limited to Federal Supply Schedule Contractors.

Customers should refer to FAR 9.6 for specific details on Team Arrangements.

Here is a general outline on how it works:

- The customer identifies their requirements.
- Federal Supply Schedule Contractors may individually meet the customer's needs, or -
- Federal Supply Schedule Contractors may individually submit a Schedules “Team Solution” to meet the customer's requirement.
- Customers make a best value selection.