

**GENERAL SERVICES ADMINISTRATION  
FEDERAL ACQUISITION SERVICE  
AUTHORIZED FEDERAL SUPPLY SCHEDULE PRICE LIST**

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order is available through **GSA Advantage!**, a menu-driven database system. The INTERNET address for **GSA Advantage!** is <http://www.gsadvantage.gov>

**Federal Supply Schedule 70  
General Purpose Commercial  
Information Technology Equipment, Software and Services**

**Special Item Number 132-33 Perpetual Software License**

FSC CLASS 7030 – Information Technology Software  
Large Scale Computers, Application Software  
Microcomputers, Application Software

**Special Item Number 132-51 Information Technology (IT) Professional Services**

FPDS Code D301	IT Facility Operation and Maintenance
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 D310	IT Backup and Security Services
FPDS Code D311	IT Data Conversion Services
FPDS Code D313	Computer Aided Design/Computer Aided Manufacturing (CAD/CAM) Services
FPDS Code D316	IT Network Management Services
FPDS Code D317	Creation/Retrieval of IT Related Automated News Services, Data Services or Other Information Services (All other information services belong under Schedule 76)
FPDS Code D399	Other Information Technology Services, Not Elsewhere Classified

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 the 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 performance by the publisher or manufacturer or one of their authorized agents.

**CONTRACT NUMBER:** GS-35F-0274L

**CONTRACT PERIOD:** 6 March 2016 through 5 March 2021

**PRICELIST CURRENT THROUGH:** Modification PS-0033 dated Feb 9, 2018

For more information on ordering from this Federal Supply Schedule contract, please visit:  
[www.gsa.gov/schedules](http://www.gsa.gov/schedules)

**CONTRACTOR:** Loyola Enterprises Inc.  
2984 S Lynnhaven Road  
Suite 101  
Virginia Beach, Virginia 23452  
Tel: 757-498-6118  
Fax: 757-498-6110  
Web: www.loyola.com

**CONTRACTOR'S POINT OF CONTACT FOR CONTRACT ADMINISTRATION:**

Benito Loyola, President  
Loyola Enterprises Inc.  
2984 S Lynnhaven Road  
Suite 101  
Virginia Beach, Virginia 23452  
Tel: 757-498-6118 x101  
Fax: 757-498-6110  
Web: www.loyola.com

**BUSINESS SIZE:** Minority, Service-Disabled Veteran-owned small business

**CONTRACTOR INFORMATION**

**1a. TABLE OF AWARDED SPECIAL ITEM NUMBERS (SINs)**

132-33 Perpetual Software License  
132-51 Information Technology Professional Services

**1b. LOWEST PRICED MODEL NUMBER AND PRICE FOR EACH AWARDED SIN:**

See Descriptions and Pricing Matrix (below).

**1c. HOURLY RATES (Services only):**

See Descriptions and Pricing Matrix (below).

**2. MAXIMUM ORDER THRESHOLD:**

SIN 132-33 \$500,000  
SIN 132-51 \$500,000

NOTE TO ORDERING ACTIVITIES: If the best value selection places your order over the applicable Maximum Order Threshold, you have an opportunity to obtain a better schedule contract price. Before placing your order, contact the Contactor for a better price. The Contractor may (1) offer a new price for this requirement, (2) offer the lowest price available under this contract or (3) decline the order. A delivery order that exceeds the maximum order may be placed under the schedule contract in accordance with FAR 8.404.

**3. MINIMUM ORDER THRESHOLD:** \$1.00 for all SINs

**4. GEOGRAPHIC COVERAGE:** Domestic and Overseas delivery

**5. POINT(S) OF PRODUCTION:**

Presagis - Richardson, Texas, United States and Montreal, Quebec, Canada  
Havok - San Francisco, California, United States  
Loyola Enterprises - Virginia Beach, Virginia, United States

**6. DISCOUNT FROM BEST MARKET RATE:**

GSA Net Prices can be found in Pricing Matrixes (below). Negotiated discounts have been applied and the Industrial Funding Fee has been added.

**7. QUANTITY DISCOUNT(S):** None

**8. PROMPT PAYMENT TERMS:** Net 30

**9a. Government Purchase Cards shall be accepted at or below the micro-purchase threshold.**

**9b. Government Purchase Cards may be accepted above the micro-purchase threshold. Contact contractor for limit.**

**10. FOREIGN ITEMS:** None

**11a. TIME OF DELIVERY:**

SIN 132-33 5 Days after Receipt of Order  
SIN 132-51 Negotiated with the Ordering Agency at the Task Order level

- 11b. EXPEDITED DELIVERY:** Negotiated with the Ordering Agency at the Task or Delivery Order level
- 11c. OVERNIGHT AND 2-DAY DELIVERY:** Contact the Contractor for Overnight and 2-day rates.
- 11d. URGENT REQUIREMENTS:** Agencies can contact the Contractor's representative to affect a faster delivery. Customers are encouraged to contact the Contractor for the purpose of requesting accelerated delivery.
- 12. FOB POINT:** Destination
- 13a. ORDERING ADDRESS:**
- Loyola Enterprises Inc.  
2984 S Lynnhaven Road  
Suite 101  
Virginia Beach, Virginia 23452  
Tel: 757-498-6118 x101  
Fax: 757-498-6110  
Web: [www.loyola.com](http://www.loyola.com)
- 13b. ORDERING PROCEDURES:** Ordering Activities shall use the ordering procedures described in Federal Acquisition Regulation 8.405-3 when placing an order or establishing a BPA for supplies or services. The ordering procedures, information on Blanket Purchase Agreements (BPA's) and a sample BPA can be found at the GSA/FSS Schedule Homepage ([fss.gsa.gov/schedules](http://fss.gsa.gov/schedules)).
- 14. PAYMENT ADDRESS:**
- Loyola Enterprises Inc.  
2984 S Lynnhaven Road  
Suite 101  
Virginia Beach, Virginia 23452  
Tel: 757-498-6118  
Fax: 757-498-6110  
Web: [www.loyola.com](http://www.loyola.com)
- 15. WARRANTY PROVISION:** Standard Commercial Warranty
- 16. EXPORT PACKING CHARGES:** None
- 17. TERMS AND CONDITIONS OF GOVERNMENT PURCHASE CARD ACCEPTANCE:** None
- 18. TERMS AND CONDITIONS OF RENTAL, MAINTENANCE, AND REPAIR (IF APPLICABLE):** Not Applicable

**19. TERMS AND CONDITIONS OF INSTALLATION (IF APPLICABLE):**

Not Applicable

**20. TERMS AND CONDITIONS OF REPAIR PARTS INDICATING DATE OF PARTS PRICE LISTS AND ANY DISCOUNTS FROM LIST PRICES (IF AVAILABLE):**

Not Applicable

**20a. TERMS AND CONDITIONS FOR ANY OTHER SERVICES (IF APPLICABLE):**

Not Applicable

**21. LIST OF SERVICE AND DISTRIBUTION POINTS (IF APPLICABLE):**

Not Applicable

**22. LIST OF PARTICIPATING DEALERS (IF APPLICABLE):**

Not Applicable

**23. PREVENTIVE MAINTENANCE (IF APPLICABLE):**

Not Applicable

**24a. SPECIAL ATTRIBUTES SUCH AS ENVIRONMENTAL ATTRIBUTES (e.g. recycled content, energy efficiency, and/or reduced pollutants):**

Not Applicable

**24b. Section 508 Compliance for Electronic and Information Technology (EIT):**

[http://www.loyola.com/contract-vehicles/gsa/it\\_schedule\\_70.html](http://www.loyola.com/contract-vehicles/gsa/it_schedule_70.html)

<http://www.loyola.com/contract-vehicles/gsa/presagis.html>

**25. DUNS NUMBER: 556417814**

**26. NOTIFICATION REGARDING REGISTRATION IN SYSTEM FOR AWARD MANAGEMENT (SAM) DATABASE:**

Contractor has an active registration in the System for Award Management (SAM) database.

**Presagis Software and Maintenance GSA Price**

SIN	MFGNAME	Part Number	Product Name	GSA w/IFF
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132-33	PRESAGIS	301-01-001-001-213-01-01	STAGE Developer - Node Locked	\$39,729.97
132-33	PRESAGIS	301-01-001-001-213-01-02	STAGE Developer - Floating	\$52,840.87
132-33	PRESAGIS	301-01-001-001-540-01-01	STAGE Pro Developer - Node Locked	\$54,628.72
132-33	PRESAGIS	301-01-001-001-540-01-02	STAGE Pro Developer - Floating	\$72,656.19
132-33	PRESAGIS	301-01-002-001-100-00-01	Flightsim Developer - Node Locked	\$49,662.47
132-33	PRESAGIS	301-01-002-001-100-00-02	Flightsim Developer - Floating	\$66,051.08
132-33	PRESAGIS	301-01-002-001-600-00-01	Helisim Developer - Node Locked	\$49,662.47
132-33	PRESAGIS	301-01-002-001-600-00-02	Helisim Developer - Floating	\$66,051.08
132-33	PRESAGIS	301-01-003-002-511-00-01	AI.implant Authoring Tools - Node Locked	\$9,932.49
132-33	PRESAGIS	301-01-003-002-511-00-02	AI.implant Authoring Tools - Floating	\$13,210.22
132-33	PRESAGIS	301-01-020-001-100-01-01	Ondulus Radar SAR Mode - Node Locked	\$29,797.48
132-33	PRESAGIS	301-01-020-002-100-01-01	Ondulus Radar ISAR Mode - Node Locked	\$29,797.48
132-33	PRESAGIS	301-01-020-003-100-01-01	Ondulus Radar RBGM Mode - Node Locked	\$29,797.48
132-33	PRESAGIS	301-01-020-004-100-01-01	Ondulus Radar MTI Mode - Node Locked	\$29,797.48
132-33	PRESAGIS	301-01-020-005-100-01-04	Ondulus Radar SAR Mode - Floating +/- 4hrs	\$39,630.65
132-33	PRESAGIS	301-01-020-005-100-01-05	Ondulus Radar SAR Mode - Floating +/- 12hrs	\$59,594.96
132-33	PRESAGIS	301-01-020-006-100-01-04	Ondulus Radar ISAR Mode - Floating +/- 4hrs	\$39,630.65
132-33	PRESAGIS	301-01-020-006-100-01-05	Ondulus Radar ISAR Mode - Floating +/- 12hrs	\$59,594.96
132-33	PRESAGIS	301-01-020-007-100-01-04	Ondulus Radar RBGM Mode - Floating +/- 4hrs	\$39,630.65
132-33	PRESAGIS	301-01-020-007-100-01-05	Ondulus Radar RBGM Mode - Floating +/- 12hrs	\$59,594.96
132-33	PRESAGIS	301-01-020-008-100-01-04	Ondulus Radar MTI Mode - Floating +/- 4hrs	\$39,630.65
132-33	PRESAGIS	301-01-020-008-100-01-05	Ondulus Radar MTI Mode - Floating +/- 12hrs	\$59,594.96
132-33	PRESAGIS	301-01-020-009-100-01-01	Ondulus Radar Option SAR Mode - Node Locked	\$19,864.99
132-33	PRESAGIS	301-01-020-010-100-01-01	Ondulus Radar Option ISAR Mode - Node Locked	\$19,864.99
132-33	PRESAGIS	301-01-020-011-100-01-01	Ondulus Radar Option RBGM Mode - Node Locked	\$19,864.99
132-33	PRESAGIS	301-01-020-012-100-01-01	Ondulus Radar Option MTI Mode - Node Locked	\$19,864.99
132-33	PRESAGIS	301-01-020-013-100-01-04	Ondulus Radar Option SAR Mode - Floating +/- 4hrs	\$26,420.43
132-33	PRESAGIS	301-01-020-013-100-01-05	Ondulus Radar Option SAR Mode - Floating +/- 12hrs	\$39,729.97
132-33	PRESAGIS	301-01-020-014-100-01-04	Ondulus Radar Option ISAR Mode - Floating +/- 4hrs	\$26,420.43
132-33	PRESAGIS	301-01-020-014-100-01-05	Ondulus Radar Option ISAR Mode - Floating +/- 12hrs	\$39,729.97
132-33	PRESAGIS	301-01-020-015-100-01-04	Ondulus Radar Option RBGM Mode - Floating +/- 4hrs	\$26,420.43
132-33	PRESAGIS	301-01-020-015-100-01-05	Ondulus Radar Option RBGM Mode - Floating +/- 12hrs	\$39,729.97
132-33	PRESAGIS	301-01-020-016-100-01-04	Ondulus Radar Option MTI Mode - Floating +/- 4hrs	\$26,420.43
132-33	PRESAGIS	301-01-020-016-100-01-05	Ondulus Radar Option MTI Mode - Floating +/- 12hrs	\$39,729.97
132-33	PRESAGIS	301-01-021-100-015-01-01	Ondulus IR - Node Locked	\$29,797.48
132-33	PRESAGIS	301-01-021-100-015-01-04	Ondulus IR - Floating +/- 4Hrs	\$39,630.65
132-33	PRESAGIS	301-01-021-100-015-01-05	Ondulus IR - Floating +/- 12Hrs	\$59,594.96
132-33	PRESAGIS	301-02-018-003-100-01-02	SEGen Offline Module-Floating	\$15,786.71
132-33	PRESAGIS	301-04-011-001-220-01-01	VAPS XT Simulation Engine - Node Locked	\$9,336.54
132-33	PRESAGIS	302-01-001-001-540-01-01	STAGE Release RTL	\$7,449.37
132-33	PRESAGIS	302-01-001-010-213-01-01	STAGE Deployment RTL including Preparation tools	\$10,925.74
132-33	PRESAGIS	302-01-002-001-100-00-01	Flightsim Release RTL	\$7,449.37

132-33	PRESAGIS	302-01-002-001-600-00-01	Helisim Release RTL	\$7,449.37
132-33	PRESAGIS	302-01-002-004-213-01-01	Helisim Deployment RTL including preparation tools	\$24,831.23
132-33	PRESAGIS	302-01-002-005-213-01-01	Flightsim Deployment RTL including preparation tools	\$24,831.23
132-33	PRESAGIS	302-01-003-001-511-00-01	AI.implant Runtime (5 pack)	\$4,966.25
132-33	PRESAGIS	302-01-003-001-511-02	AI.implant Runtime (5 pack) - Linux	\$4,966.25
132-33	PRESAGIS	302-01-020-033-100-01-00	Ondulus Radar SAR Mode - RTL	\$4,469.62
132-33	PRESAGIS	302-01-020-034-100-01-00	Ondulus Radar ISAR Mode - RTL	\$4,469.62
132-33	PRESAGIS	302-01-020-035-100-01-00	Ondulus Radar RBGM Mode - RTL	\$4,469.62
132-33	PRESAGIS	302-01-020-036-100-01-00	Ondulus Radar MTI Mode - RTL	\$4,469.62
132-33	PRESAGIS	302-01-021-100-015-01-00	Ondulus IR - RTL	\$4,469.62
132-33	PRESAGIS	303-01-001-001-213-01-00	STAGE Developer Maintenance	\$7,945.99
132-33	PRESAGIS	303-01-001-001-540-01-00	STAGE Pro Developer Maintenance	\$10,925.74
132-33	PRESAGIS	303-01-001-003-540-01-00	STAGE Runtime Maintenance (Grandfather clause only)	\$1,489.87
132-33	PRESAGIS	303-01-001-010-213-01-00	STAGE Deployment RTL including Preparation tools Maintenance	\$2,185.15
132-33	PRESAGIS	303-01-001-020-015-01-00	STAGE for Ondulus - Maintenance	\$1,489.87
132-33	PRESAGIS	303-01-001-101-015-00-00	STAGE Pro Developer – Floating +/- 4 hrs Maintenance	\$10,925.74
132-33	PRESAGIS	303-01-002-001-100-00-00	Flightsim Developer Maintenance	\$9,932.49
132-33	PRESAGIS	303-01-002-001-600-00-00	Helisim Developer Maintenance	\$9,932.49
132-33	PRESAGIS	303-01-002-003-100-00-00	Flightsim Runtime Maintenance (Grandfather clause only)	\$1,489.87
132-33	PRESAGIS	303-01-002-003-600-00-00	Helisim Runtime Maintenance (Grandfather clause only)	\$1,489.87
132-33	PRESAGIS	303-01-002-004-213-01-00	Helisim Deployment RTL including preparation tools Maintenance	\$4,966.25
132-33	PRESAGIS	303-01-002-005-213-01-00	Flightsim Deployment RTL including preparation tools Maintenance	\$4,966.25
132-33	PRESAGIS	303-01-002-100-015-00-00	FlightSIM Developer – Floating +/- 4 hrs Maintenance	\$9,932.49
132-33	PRESAGIS	303-01-003-003-511-01	AI.implant Runtime (5 pack) Maintenance	\$993.25
132-33	PRESAGIS	303-01-020-017-100-01-00	Ondulus Radar SAR Mode - Maintenance	\$5,959.50
132-33	PRESAGIS	303-01-020-018-100-01-00	Ondulus Radar ISAR Mode - Maintenance	\$5,959.50
132-33	PRESAGIS	303-01-020-019-100-01-00	Ondulus Radar RBGM Mode - Maintenance	\$5,959.50
132-33	PRESAGIS	303-01-020-020-100-01-00	Ondulus Radar MTI Mode - Maintenance	\$5,959.50
132-33	PRESAGIS	303-01-020-025-100-01-00	Ondulus Radar Option SAR Mode - Maintenance	\$3,973.00
132-33	PRESAGIS	303-01-020-026-100-01-00	Ondulus Radar Option ISAR Mode - Maintenance	\$3,973.00
132-33	PRESAGIS	303-01-020-027-100-01-00	Ondulus Radar Option RBGM Mode - Maintenance	\$3,973.00
132-33	PRESAGIS	303-01-020-028-100-01-00	Ondulus Radar Option MTI Mode - Maintenance	\$3,973.00
132-33	PRESAGIS	303-01-020-100-015-00-00	Ondulus Radar ISAR Mode - Floating +/- 4hrs - Maintenance	\$5,959.50
132-33	PRESAGIS	303-01-020-101-015-00-00	Ondulus Radar MTI Mode - Floating +/- 4hrs - Maintenance	\$5,959.50
132-33	PRESAGIS	303-01-020-102-015-00-00	Ondulus Radar Option ISAR Mode - Floating +/- 4hrs - Maintenance	\$3,973.00
132-33	PRESAGIS	303-01-020-103-015-00-00	Ondulus Radar Option MTI Mode - Floating +/- 4hrs - Maintenance	\$3,973.00
132-33	PRESAGIS	303-01-020-104-015-00-00	Ondulus Radar Option RBGM Mode - Floating +/- 4hrs - Maintenance	\$3,973.00

132-33	PRESAGIS	303-01-020-105-015-00-00	Ondulus Radar Option SAR Mode - Floating +/- 4hrs - Maintenance	\$3,973.00
132-33	PRESAGIS	303-01-020-106-015-00-00	Ondulus Radar RBGM Mode - Floating +/- 4hrs - Maintenance	\$5,959.50
132-33	PRESAGIS	303-01-020-107-015-00-00	Ondulus Radar SAR Mode - Floating +/- 4hrs - Maintenance	\$5,959.50
132-33	PRESAGIS	303-01-020-110-015-00-00	Ondulus Radar ISAR Mode - Floating +/- 12hrs - Maintenance	\$8,939.24
132-33	PRESAGIS	303-01-020-111-015-00-00	Ondulus Radar MTI Mode - Floating +/- 12hrs - Maintenance	\$8,939.24
132-33	PRESAGIS	303-01-020-112-015-00-00	Ondulus Radar Option ISAR Mode - Floating +/- 12hrs - Maintenance	\$3,973.00
132-33	PRESAGIS	303-01-020-113-015-00-00	Ondulus Radar Option MTI Mode - Floating +/- 12hrs - Maintenance	\$3,973.00
132-33	PRESAGIS	303-01-020-114-015-00-00	Ondulus Radar Option RBGM Mode - Floating +/- 12hrs - Maintenance	\$3,973.00
132-33	PRESAGIS	303-01-020-115-015-00-00	Ondulus Radar Option SAR Mode - Floating +/- 12hrs - Maintenance	\$3,973.00
132-33	PRESAGIS	303-01-020-116-015-00-00	Ondulus Radar RBGM Mode - Floating +/- 12hrs - Maintenance	\$8,939.24
132-33	PRESAGIS	303-01-020-117-015-00-00	Ondulus Radar SAR Mode - Floating +/- 12hrs - Maintenance	\$8,939.24
132-33	PRESAGIS	303-01-021-110-015-00-00	Ondulus IR - Maintenance	\$5,959.50
132-33	PRESAGIS	303-01-021-111-015-00-00	Ondulus IR - Floating +/- 4Hrs - Maintenance	\$5,959.50
132-33	PRESAGIS	303-01-021-112-015-00-00	Ondulus IR - Floating +/- 12Hrs - Maintenance	\$8,939.24
132-33	PRESAGIS	303-02-018-004-100-01-00	SEGen Server Premier Offline Module Maintenance	\$2,373.87
132-33	PRESAGIS	303-02-018-006-100-01-00	SEGen Server Premier Maintenance (Support Only)	\$1,981.53
132-33	PRESAGIS	303-04-011-001-220-01-00	VAPS XT Simulation Edition Maintenance	\$2,483.12
132-33	PRESAGIS	303-04-011-002-220-01-00	VAPS XT Designer Maintenance	\$1,986.50
132-33	PRESAGIS	303-04-011-003-220-01-00	VAPS XT Developer Maintenance	\$8,343.29
132-33	PRESAGIS	303-04-011-004-220-01-00	VAPS XT Embedded Maintenance	\$16,686.59
132-33	PRESAGIS	303-04-011-020-220-01-00	VAPS XT ARINC 661 Module + UA Emulator Maintenance	\$2,483.12
132-33	PRESAGIS	303-04-012-001-641-01-00	VAPS Designer Maintenance	\$1,986.50
132-33	PRESAGIS	303-04-012-001-641-01-00-S	VAPS Designer Maintenance - Support Only	\$1,191.90
132-33	PRESAGIS	303-04-012-002-641-01-00	VAPS Developer Maintenance	\$8,939.24
132-33	PRESAGIS	303-04-012-002-641-01-00-S	VAPS Developer Maintenance - Support Only	\$5,363.55
132-33	PRESAGIS	303-04-012-003-641-01-00	VAPS Rehost Maintenance	\$17,381.86
132-33	PRESAGIS	303-04-012-003-641-01-00-S	VAPS Rehost Maintenance - Support Only	\$10,429.12
132-33	PRESAGIS	303-04-014-126-002-01-00	UA Accelerator Developer Suite - Floating - Maintenance	\$4,966.25
132-33	PRESAGIS	318-02-018-002-100-01-00	SEGen Realtime Module Maintenance (Support Only)	\$1,981.53
132-33	PRESAGIS	318-02-018-004-100-01-00	SEGen Offline Module Maintenance (Support Only)	\$1,186.93
132-33	PRESAGIS	321-02-018-002-100-01-00	SEGen Server Premier Support	\$1,981.53
132-33	PRESAGIS	401-02-005-001-340-01-01	Creator - Node Locked	\$7,945.99
132-33	PRESAGIS	401-02-005-001-340-01-02	Creator - Floating	\$10,568.17
132-33	PRESAGIS	401-02-005-001-340-01-04	Creator - Floating +/- 4 hrs	\$10,568.17
132-33	PRESAGIS	401-02-005-001-340-01-05	Creator - Floating +/- 12 hrs	\$15,891.99

132-33	PRESAGIS	401-02-005-002-340-01-01	Creator Pro - Node Locked	\$18,176.46
132-33	PRESAGIS	401-02-005-002-340-01-02	Creator Pro - Floating	\$24,174.70
132-33	PRESAGIS	401-02-005-002-340-01-04	Creator Pro – Floating +/- 4 hrs	\$24,174.70
132-33	PRESAGIS	401-02-005-002-340-01-05	Creator Pro – Floating +/- 12 hrs	\$36,352.93
132-33	PRESAGIS	401-02-005-003-360-01-01	Creator Airports Option for Creator - Node Locked	\$5,959.50
132-33	PRESAGIS	401-02-006-001-513-01-01	Terra Vista - Node Locked	\$16,785.91
132-33	PRESAGIS	401-02-006-001-513-01-02	Terra Vista - Floating	\$22,325.27
132-33	PRESAGIS	401-02-006-001-513-01-04	Terra Vista - Floating +/- 4hrs	\$22,325.27
132-33	PRESAGIS	401-02-006-001-513-01-05	Terra Vista - Floating +/- 12hrs	\$33,571.83
132-33	PRESAGIS	401-02-006-002-100-01-01	APT for Terra Vista - Node Locked	\$13,905.49
132-33	PRESAGIS	401-02-006-002-100-01-04	APT for Terra Vista - Floating +/- 4hrs	\$18,494.30
132-33	PRESAGIS	401-02-006-002-100-01-05	APT for Terra Vista - Floating +/- 12hrs	\$27,810.98
132-33	PRESAGIS	401-02-006-002-513-01-01	Terra Vista Pro - Node Locked	\$24,731.91
132-33	PRESAGIS	401-02-006-002-513-01-02	Terra Vista Pro - Floating	\$32,893.44
132-33	PRESAGIS	401-02-006-002-513-01-04	Terra Vista Pro - Floating +/- 4hrs	\$32,893.44
132-33	PRESAGIS	401-02-006-002-513-01-05	Terra Vista Pro - Floating +/- 12hrs	\$49,463.82
132-33	PRESAGIS	401-02-006-003-513-01-01	Terra Vista DART - Node Locked	\$38,736.73
132-33	PRESAGIS	401-02-006-003-513-01-02	Terra Vista DART - Floating	\$51,519.84
132-33	PRESAGIS	401-02-006-003-513-01-04	Terra Vista DART Floating +/- 4 hrs	\$51,519.84
132-33	PRESAGIS	401-02-006-003-513-01-05	Terra Vista DART Floating +/- 12 hrs	\$77,473.45
132-33	PRESAGIS	401-02-006-010-150-01-01	OTF Output Compiler for TV Pro or DART - Node Locked	\$496.62
132-33	PRESAGIS	401-02-006-010-150-01-04	OTF Output Compiler for TV Pro or DART - Floating +/- 4 hrs.	\$660.51
132-33	PRESAGIS	401-02-006-010-150-01-05	OTF Output Compiler for TV Pro or DART - Floating +/- 12hrs.	\$1,321.02
132-33	PRESAGIS	401-02-006-013-513-01-02	Terra Vista Backend – Perpetual - Floating	\$0.00
132-33	PRESAGIS	401-02-006-013-513-01-04	Terra Vista Backend - Perpetual - Floating +/- 4hrs	\$0.00
132-33	PRESAGIS	401-02-006-013-513-01-05	Terra Vista Backend - Perpetual - Floating +/- 12 hrs	\$0.00
132-33	PRESAGIS	401-02-007-013-513-01-02	Terra Vista Additional Backend - Perpetual - Floating	\$496.62
132-33	PRESAGIS	401-02-007-013-513-01-04	Terra Vista Additional Backend - Perpetual - Floating +/- 4hrs	\$132.10
132-33	PRESAGIS	401-02-007-013-513-01-05	Terra Vista Additional Backend - Perpetual - Floating +/- 12hrs	\$198.65
132-33	PRESAGIS	401-03-009-003-220-01-01	Vega Prime - Node Locked	\$9,435.87
132-33	PRESAGIS	401-03-009-003-220-01-02	Vega Prime - Floating	\$12,549.71
132-33	PRESAGIS	401-03-009-005-220-01-01	Vega Prime Multi-Channel - Node Locked	\$3,973.00
132-33	PRESAGIS	401-03-009-005-220-01-02	Vega Prime Multi-Channel - Floating	\$5,284.09
132-33	PRESAGIS	401-03-009-005-220-01-04	Vega Prime Multi-Channel - Floating +/- 4hrs	\$5,284.09
132-33	PRESAGIS	401-03-009-009-220-01-01	Vega Prime Marine Module - Node Locked	\$14,898.74
132-33	PRESAGIS	401-03-009-009-220-01-02	Vega Prime Marine Module - Floating	\$19,815.32
132-33	PRESAGIS	401-03-009-015-300-01-01	Vega Prime Effects Module - Node Locked	\$9,932.49
132-33	PRESAGIS	401-03-009-015-300-01-02	Vega Prime Effects Module - Floating	\$13,210.22
132-33	PRESAGIS	401-03-009-016-220-01-01	Vega Prime Pro - Node Locked	\$19,368.36
132-33	PRESAGIS	401-03-009-016-220-01-04	Vega Prime Pro - Floating +/- 4 hrs.	\$25,759.92
132-33	PRESAGIS	401-03-500-006-220-01-01	Texture Material Mapper (TTM) – Node Locked	\$7,697.68
132-33	PRESAGIS	401-03-500-006-220-01-02	Texture Material Mapper (TTM) – Floating	\$10,238.41
132-33	PRESAGIS	401-03-500-007-220-01-01	Vega Prime Atmospheric Module - Node Locked	\$5,661.52

132-33	PRESAGIS	401-03-500-007-220-01-02	Vega Prime Atmospheric Module - Floating	\$7,529.82
132-33	PRESAGIS	401-03-500-008-220-01-02	Terra Vista Sensor - Floating	\$10,238.41
132-33	PRESAGIS	401-03-500-009-220-01-01	Terra Vista Sensor - Node Locked	\$7,697.68
132-33	PRESAGIS	401-03-500-010-300-01-01	Vega Prime IR/NVG Sensor Module - Node Locked	\$39,233.35
132-33	PRESAGIS	401-03-500-010-300-01-02	Vega Prime IR/NVG Sensor Module - Floating	\$52,180.36
132-33	PRESAGIS	401-03-500-010-300-02-01	Vega Prime IR/NVG Sensor Module - Linux - Node Locked	\$39,233.35
132-33	PRESAGIS	401-05-301-010-900-01-01	DI-Guy for Vega Prime - Node Locked	\$9,684.18
132-33	PRESAGIS	401-05-301-010-900-01-02	DI-Guy for Vega Prime - Floating	\$12,880.46
132-33	PRESAGIS	402-03-009-003-220-01-00	Vega Prime Release RTL	\$1,489.87
132-33	PRESAGIS	402-03-009-005-220-01-00	Vega Prime Multi-Channel - Release RTL	\$993.25
132-33	PRESAGIS	402-03-009-009-220-01-01	Vega Prime Marine Module - Release RTL	\$1,787.85
132-33	PRESAGIS	402-03-009-015-300-01-01	Vega Prime Effects Module - Release RTL	\$1,489.87
132-33	PRESAGIS	402-03-009-030-213-01-01	Vega Prime Development RTL	\$1,489.87
132-33	PRESAGIS	402-03-009-040-213-01-01	Vega Prime Effects Module - Development RTL	\$1,489.87
132-33	PRESAGIS	402-03-009-050-213-01-01	Vega Prime Marine Module - Development RTL	\$1,787.85
132-33	PRESAGIS	402-03-009-060-213-01-01	Vega Prime Multi-Channel - Development RTL	\$993.25
132-33	PRESAGIS	402-03-013-003-220-01-00	Vega Prime Pro Release RTL Includes VP, VP Effects, VP Marine, VP Multi-Channel, Speed Tree	\$2,483.12
132-33	PRESAGIS	402-03-500-005-220-01-01	Vega Prime Radar - Runtime	\$2,185.15
132-33	PRESAGIS	402-03-500-010-300-01-00	Vega Prime IR/NVG Sensor Module - Release RTL (1 unit)	\$4,966.25
132-33	PRESAGIS	402-03-500-020-213-01-01	Vega Prime IR/NVG Sensor Module - Development RTL (1 unit)	\$4,966.25
132-33	PRESAGIS	402-05-301-010-900-01-01	DI-Guy for Vega Prime - Runtime	\$1,713.36
132-33	PRESAGIS	403-02-005-001-340-01-00	Creator Maintenance	\$1,589.20
132-33	PRESAGIS	403-02-005-002-340-01-00	Creator Pro Maintenance	\$3,635.29
132-33	PRESAGIS	403-02-005-003-360-01-00	Creator Airports Option for Creator Maintenance (Support Only)	\$595.95
132-33	PRESAGIS	403-02-005-100-015-00-00	Creator – Floating +/- 4 hrs Maintenance	\$1,589.20
132-33	PRESAGIS	403-02-005-101-015-00-00	Creator Pro – Floating +/- 4 hrs Maintenance	\$3,635.29
132-33	PRESAGIS	403-02-005-110-015-00-00	Creator – Floating +/- 12 hrs Maintenance	\$2,383.80
132-33	PRESAGIS	403-02-005-111-015-00-00	Creator Pro – Floating +/- 12 hrs Maintenance	\$5,452.94
132-33	PRESAGIS	403-02-006-001-513-01-00	Terra Vista Maintenance	\$3,357.18
132-33	PRESAGIS	403-02-006-002-100-01-00	APT for Terra Vista - Maintenance	\$2,781.10
132-33	PRESAGIS	403-02-006-002-513-01-00	Terra Vista Pro Maintenance	\$4,946.38
132-33	PRESAGIS	403-02-006-003-513-01-00	Terra Vista DART Maintenance	\$7,747.35
132-33	PRESAGIS	403-02-006-010-150-01-00	OTF Output Compiler for TV Pro or DART Maintenance	\$99.32
132-33	PRESAGIS	403-02-006-020-150-01-00	OTF Output Compiler for TV Pro or DART - Floating +/- 4 hrs Maintenance	\$99.32
132-33	PRESAGIS	403-02-006-021-150-01-00	OTF Output Compiler for TV Pro or DART - Floating +/- 12hrs Maintenance	\$148.99
132-33	PRESAGIS	403-02-006-100-015-00-00	Terra Vista - Floating +/- 4 hrs Maintenance	\$3,357.18
132-33	PRESAGIS	403-02-006-100-100-01-00	APT for Terra Vista - Floating +/- 4hrs	\$2,781.10
132-33	PRESAGIS	403-02-006-100-513-01-00	Terra Vista DART Floating +/- 4 hrs Maintenance	\$7,747.35
132-33	PRESAGIS	403-02-006-101-015-00-00	Terra Vista Additional Backend - Perpetual Floating +/- 4hrs Maintenance	\$99.32
132-33	PRESAGIS	403-02-006-101-100-01-00	APT for Terra Vista - Floating +/- 12hrs - Maintenance	\$4,171.65

132-33	PRESAGIS	403-02-006-101-513-01-00	Terra Vista DART Floating +/- 12hrs Maintenance	\$11,621.02
132-33	PRESAGIS	403-02-006-102-015-00-00	Terra Vista Pro - Floating +/- 4 hrs Maintenance	\$4,946.38
132-33	PRESAGIS	403-02-006-103-015-00-00	Terra Vista - Floating +/- 12hrs - Maintenance	\$5,035.77
132-33	PRESAGIS	403-02-006-111-015-00-00	Terra Vista Additional Backend - Perpetual Floating +/- 12hrs Maintenance	\$148.99
132-33	PRESAGIS	403-02-006-112-015-00-00	Terra Vista Pro - Floating +/- 12hrs Maintenance	\$7,419.57
132-33	PRESAGIS	403-02-007-013-513-01-00	Terra Vista Additional Backend - Perpetual - Maintenance	\$99.32
132-33	PRESAGIS	403-03-009-003-220-01-00	Vega Prime - Maintenance	\$1,986.50
132-33	PRESAGIS	403-03-009-005-220-01-00	Vega Prime Multi-Channel - Maintenance	\$794.60
132-33	PRESAGIS	403-03-009-009-220-01-00	Vega Prime Marine Module - Maintenance	\$2,979.75
132-33	PRESAGIS	403-03-009-015-300-01-00	Vega Prime Effects Module - Maintenance	\$1,986.50
132-33	PRESAGIS	403-03-009-065-220-01-00	Vega Prime Pro Maintenance	\$3,873.67
132-33	PRESAGIS	403-03-009-100-015-01-00	Vega Prime Floating +/- 4 hrs Maintenance	\$1,887.17
132-33	PRESAGIS	403-03-009-103-015-00-00	Vega Prime Multi-Channel - Floating +/- 4hrs Maintenance	\$794.60
132-33	PRESAGIS	403-03-009-104-015-00-00	Vega Prime Pro - Floating +/- 4 hrs Maintenance	\$3,873.67
132-33	PRESAGIS	403-03-500-007-220-01-00	Vega Prime Atmospheric Module Maintenance	\$1,132.30
132-33	PRESAGIS	403-03-500-008-213-01-00	Terra Vista Sensor Maintenance	\$1,539.54
132-33	PRESAGIS	403-03-500-010-300-01-00	Vega Prime IR/NVG Sensor Module - Maintenance	\$7,945.99
132-33	PRESAGIS	403-03-500-010-300-02-00	Vega Prime IR/NVG Sensor Module - Linux Maintenance	\$7,945.99
132-33	PRESAGIS	403-03-500-100-300-01-00	Vega Prime IR/NVG Sensor Module - Support	\$3,973.00
132-33	PRESAGIS	403-05-301-010-900-01-00	DI-Guy for Vega Prime - Maintenance	\$1,936.84
132-33	PRESAGIS	408-02-005-001-000-01-00	Upgrade from Creator to Creator Pro (Node Locked to Node Locked)	\$10,230.47
132-33	PRESAGIS	408-02-005-002-000-01-04	Upgrade from Creator to Creator Pro (Floating) +/- 4 hrs	\$13,606.52
132-33	PRESAGIS	408-02-005-002-000-01-05	Upgrade from Creator to Creator Pro (Floating) +/- 12 hrs	\$20,460.94
132-33	PRESAGIS	408-02-006-001-513-00-00	Upgrade from Terra Vista to Pro (Node Locked)	\$7,945.99
132-33	PRESAGIS	408-02-006-002-513-00-00	Upgrade from Terra Vista Pro to DART (Node Locked)	\$14,004.82
132-33	PRESAGIS	408-02-006-003-513-00-04	Upgrade from Terra Vista Pro (Floating) +/- 4hrs	\$10,568.17
132-33	PRESAGIS	408-02-006-003-513-00-05	Upgrade from Terra Vista to Pro (Floating) +/- 12hrs)	\$15,891.99
132-33	PRESAGIS	408-02-006-103-513-00-00	Upgrade from Terra Vista Pro to DART (Floating +/- 4hrs)	\$18,626.41
132-33	PRESAGIS	410-03-009-030-220-01-00	Vega Prime Hardware RTL	\$1,986.50
132-33	PRESAGIS	410-08-000-001-000-00-00	Dongle	\$148.99
132-33	PRESAGIS	418-02-006-001-513-01-00	Terra Vista Support	\$2,014.31
132-33	PRESAGIS	418-03-500-002-213-01-00	CTS Sensors Support Maintenance	\$1,489.87
132-33	PRESAGIS	418-03-500-005-213-01-00	Vega Prime Radar Support Maintenance	\$1,738.19
132-33	PRESAGIS	418-03-500-006-213-01-00	Texture Material Mapper (TMM) Support Maintenance	\$769.77
132-33	PRESAGIS	418-03-500-007-220-01-00	Vega Prime Atmospheric Module Maintenance - Support Only	\$566.15
132-33	PRESAGIS	418-03-500-008-213-01-00	Terra Vista Sensor Maintenance Support Only	\$769.77

### Information Technology Professional Services GSA Price

132-51	LOYOLA	AA1	ADMINISTRATIVE ASSISTANT I	\$24.22
132-51	LOYOLA	AA2	ADMINISTRATIVE ASSISTANT II	\$27.88
132-51	LOYOLA	AA3	ADMINISTRATIVE ASSISTANT III	\$36.30
132-51	LOYOLA	APA1	APPLICATION PROGRAMMER/ANALYST I	\$52.61
132-51	LOYOLA	APA2	APPLICATION PROGRAMMER/ANALYST II	\$67.75
132-51	LOYOLA	APA3	APPLICATION PROGRAMMER/ANALYST III	\$99.81
132-51	LOYOLA	CSS1	COMPUTER SECURITY SPECIALIST I	\$50.85
132-51	LOYOLA	CSS2	COMPUTER SECURITY SPECIALIST II	\$74.55
132-51	LOYOLA	CST	CONSULTANT	\$173.94
132-51	LOYOLA	DA	DATABASE ADMINISTRATOR	\$58.21
132-51	LOYOLA	DC/IS/DL	DATA CONVERSION / IMAGERY SPECIALIST / DIGITAL LIBRARIAN	\$30.16
132-51	LOYOLA	DM/DW	SR. DATA MODELING SPEC/DATA WAREHOUSE SPECIALIST	\$104.18
132-51	LOYOLA	DP1	DATABASE PROGRAMMER I	\$58.21
132-51	LOYOLA	DP2	DATABASE PROGRAMMER II	\$97.89
132-51	LOYOLA	EM	EXECUTIVE MANAGER	\$119.07
132-51	LOYOLA	GIS1	GIS SPECIALIST I	\$57.15
132-51	LOYOLA	GIS2	GIS SPECIALIST II	\$81.84
132-51	LOYOLA	IDA	INTERNET DATABASE ADMINISTRATOR	\$58.40
132-51	LOYOLA	IDS	INTERNET DESIGN SPECIALIST	\$48.95
132-51	LOYOLA	IDS1	INTERNET/INTRANET DEVELOPER SPECIALIST I	\$63.57
132-51	LOYOLA	IDS2	INTERNET/INTRANET DEVELOPER SPECIALIST II	\$85.00
132-51	LOYOLA	IDS3	INTERNET/INTRANET DEVELOPER SPECIALIST III	\$105.11
132-51	LOYOLA	IS	HW/SW INSTALL SPECIALIST	\$67.24
132-51	LOYOLA	IT	HW/SW INSTALL TECHNICIAN	\$61.65
132-51	LOYOLA	LA1	LOGISTICS ANALYST I	\$35.68
132-51	LOYOLA	LA2	LOGISTICS ANALYST II	\$63.36
132-51	LOYOLA	LS1	LOGISTICS SPECIALIST I	\$37.51
132-51	LOYOLA	LS2	LOGISTICS SPECIALIST II	\$50.01
132-51	LOYOLA	MSS	MODELING AND SIMULATION SCIENTIST	\$74.89
132-51	LOYOLA	NELA1	NETWORK ENGINEER / LAN ADMINISTRATOR I	\$45.76
132-51	LOYOLA	NELA2	NETWORK ENGINEER / LAN ADMINISTRATOR II	\$75.75
132-51	LOYOLA	NELA3	NETWORK ENGINEER / LAN ADMINISTRATOR III	\$86.09
132-51	LOYOLA	NELA4	NETWORK ENGINEER / LAN ADMINISTRATOR IV	\$100.85
132-51	LOYOLA	OD	ORACLE DEVELOPER	\$115.55

132-51	LOYOLA	PJ1	PROJECT MANAGER I	\$69.86
132-51	LOYOLA	PM2	PROGRAM MANAGER II	\$97.13
132-51	LOYOLA	PM3	PROGRAM MANAGER III	\$108.80
132-51	LOYOLA	PSA	PROJECT SUPPORT ADMINISTRATOR	\$60.23
132-51	LOYOLA	REX	RECOGNIZED EXPERT/EXECUTIVE	\$198.74
132-51	LOYOLA	SBPA	SENIOR BUSINESS PROCESS ANALYST	\$63.04
132-51	LOYOLA	SCS	SENIOR COMPUTER SIMULATION & MODELING SPECIALIST	\$101.10
132-51	LOYOLA	SGS	SENIOR GEOSPATIAL SCIENTIST	\$75.38
132-51	LOYOLA	SO	SECURITY OFFICER	\$27.46
132-51	LOYOLA	SOD	SENIOR ORACLE DEVELOPER	\$141.31
132-51	LOYOLA	STW	SENIOR TECHNICAL WRITER	\$54.19
132-51	LOYOLA	TRS1	TRAINING SPECIALIST I	\$40.58
132-51	LOYOLA	TRS2	TRAINING SPECIALIST II	\$49.43
132-51	LOYOLA	TRS3	TRAINING SPECIALIST III	\$76.81
132-51	LOYOLA	TS1	TECHNICAL STAFF-LEVEL 1	\$37.54
132-51	LOYOLA	TS2	TECHNICAL STAFF-LEVEL 2	\$52.38
132-51	LOYOLA	TS3	TECHNICAL STAFF-LEVEL 3	\$55.72
132-51	LOYOLA	TS4	TECHNICAL STAFF-LEVEL 4	\$70.54
132-51	LOYOLA	TW	TECHNICAL WRITER/EDITOR	\$42.85
132-51	LOYOLA	WD	WEBSITE DEVELOPER / ADMINISTRATOR	\$40.44
132-51	LOYOLA	WP1	WORD PROCESSOR I	\$25.73
132-51	LOYOLA	WP2	WORD PROCESSOR II	\$31.53

## **Description of IT Services**

### Administrative Assistant I-

Experience: Must have 1 year of relevant experience including familiarity with word processing, spreadsheet, and presentation software.

Education: High School Diploma or equivalent.

Functional Responsibility: Performs administrative and project support as directed.

### Administrative Assistant II-

Experience: Must have 3 years' of relevant experience including familiarity with word processing, spreadsheet, and presentation software.

Education: High School Diploma or equivalent.

Functional Responsibility: Performs administrative and project support in areas of program management, project control, report generation, scheduling and financial management. Exercises judgment in accomplishing tasking, and works somewhat independently.

### Administrative Assistant III

Experience: Must have 6 years' of relevant experience including familiarity with word processing, spreadsheet, and presentation software.

Education: High School Diploma or equivalent.

Functional Responsibility: Performs administrative project support in areas of program management, project control, report generation, scheduling and financial management. Exercises judgment in accomplishing tasking, and works independently.

### Word Processor I

Experience: 1 year experience in required clerical skills and operation of office equipment.

Education: High School Diploma or GED.

Functional Responsibility: Prepares final copy from draft materials and recorded dictation, using word processing and basic charting and graphics capabilities Establishes and maintains routine office files Uses of a variety of office equipment to produce work rapidly and accurately Works with technical personnel to ensure accuracy and completeness of materials prepared.

#### Word Processor II

Experience: 3 years' of experience related to administrative functions such as job ordering and reporting, maintenance of security records, word processing, data transcription, filing and other miscellaneous duties.

Education: High School Diploma or equivalent

Functional Responsibility: Prepares final copy from draft materials and recorded dictation, using word processing and advanced charting and graphics capabilities. Uses of a variety of office equipment to produce work rapidly and accurately Works with technical personnel to ensure accuracy and completeness of materials prepared. Prepares various documents including text, tables, and matrices.

#### Project Support Administrator

Experience: 8 years' experience working in an automated office capacity involving information technology, of which two years' involved supervision of others and/or responsibility to operate autonomously. Experience with automated office disciplines such human resource administration, security administration, travel administration, contract administration, financial administration, accounting, or management information systems administration.

Education: Bachelor's degree or four additional years' of relevant experience is required. Study toward advanced or secondary degrees may be counted toward experience requirements. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Operate information technology applications, including spreadsheet programs, presentation programs, database programs, word processing programs, financial programs or page layout programs. Provides project support incidental to and in direct support of the proposed professional services. Performs administrative functions including but not limited to information administration, publications administration, human resource administration, contract/subcontract administration and other duties as assigned, in support of the project as a whole. Other functions may include but are not limited to administrative discipline, policy enforcement, meeting administration, facilities management, communications, administrative security, purchasing, organizing, and executive support.

#### Technical Staff-Level 1-4

Experience: Must have experience in one of the following types of disciplines: computer science; computer systems; decision support; computer security; electronic commerce; business processing and re-engineering; business process analyses, information architecture planning and design; business management; financial management; engineering; operations research; logistics; modeling and simulation; math; physics; quality assurance; supply; systems analysis.

Education: A Bachelor's degree or technical training and equivalent experience may be substituted for a degree. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Requirements: Individuals require the technical training, skills and experience to operate within and directly support an Information Technology environment. The Technical Staff provides specialized knowledge of complex customer processes and requirements. Applies technical expertise to assist in defining, analyzing, validating and documenting complex operating environments, states of technology and current engineering and business processes.

Level 1: Degree and 1-3 years' experience

Level 2: Degree and 4-5 years' experience

Level 3: Degree and 6-7 years' experience

Level 4: Degree and 8-9 years' experience

HW/SW Install Technician-General Summary

Experience: 2 years' of general experience in the conduct of sites surveys; assesses and documents current site configuration and user requirements and installs new configurations.

Education: High School Diploma. There is no experience substitution for a High School Diploma, however a G.E.D., other degree equivalency program, or a technical trade school certificate is acceptable. With a Bachelors degree no experience is required.

Functional Responsibility: Designs and optimize network topologies. Analyzes existing requirements and prepares specifications for hardware/software acquisitions. Prepares engineering plans and site installation Technical Design Packages. Develops hardware/software installation schedules. Prepares drawings documenting configuration changes at each site. Prepares site installation and test reports. Configures systems, communications devices, and peripheral equipment. Installs network hardware/software. Trains site personnel in proper use of hardware/software. Builds specialized interconnecting cables.

HW/SW Install Specialist

Experience: 3 years' in preparation of functional requirements and specifications for hardware/software acquisitions. Direct experience in evaluating and troubleshooting problems that have been properly identified and developing solutions will satisfy the user's requirements.

Education: Bachelor's Degree or equivalent. 6 years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Reviews computer systems in terms of machine capabilities and man-machine interface. Prepares reports and studies concerning hardware/software.

Consultant

Experience: The Consultant category is reserved for subject matter experts and recognized professionals in particular fields that are normally employed on a short-term basis for a specific project.

Education: No Requirement.

Functional Responsibility: Project-specific.

Database Administrator

Experience: 3 years' of experience with database management systems. Evaluation and recommendation of DBMS products to support validated user requirements. Experience with file organization, indexing methods, transaction and rollback protocols, data loading, and security procedures for specific user applications.

Education: Computer Science degree, or Bachelor of Science in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Directs systems analyses and feasibility studies. Assists customer in the planning, coordinating, acquisition, and implementation of systems. Analyzes proposed and existing system used in processing applications in terms of data communications and database management/structure, requirements, and costs. Prepares studies and gives presentations on current data communications concepts. Prepares functional specifications for acquiring commercially available equipment. Consults with user management to ensure that problems are properly identified and solutions meet the requirements.

Database Programmer I

Experience: 3 years' progressive data processing experience in the design and development of database applications. Experience in resolving program and system problems through program dumps and other debugging techniques.

Education: Computer Science degree, or Bachelor of Science in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Writes functional specifications and prepares implementation schedules for smaller applications and subsystems to major applications. Monitors existing systems making recommendations for improved performance and service to the application user. Knowledge and experience with system analysis and design methodologies.

#### Database Programmer II

Experience: 5 years' progressive data processing experience in the design and development of database applications. Supervisory experience in managing junior database programmers and providing them direction. Education: Computer Science degree, or Bachelor of Science in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Writes functional specifications and prepares implementation schedules for smaller applications and subsystems to major applications. Monitors existing systems making recommendations for improved performance and service to the application user.

#### Sr. Data Modeling Spec/Data Warehouse Specialist

Experience: 7 years' experience with RDBMS (Oracle, Sybase, SQL, and Access), database development, and data warehousing. Must also have experience in JAVA, DBA, ODBC, OLE, DDE, CGI, client/server implementation and Microsoft Windows.

Education: Computer Science degree, or Bachelor of Science in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Performs extensive programming utilizing Object-Oriented Design, programming using C++ and Java with additional requirements in full life-cycle development.

#### Oracle Developer

Experience: 5 years' specialized Oracle experience.

Education: Computer Science degree, or Bachelor of Science in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Supports the Sr. Oracle Developer and/or Project Manager in the development and analysis of applications using Oracle.

#### Senior Oracle Developer

Experience: 7 years' specialized Oracle experience.

Education: Computer Science degree, or Bachelor of Science in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Specializes in the development of applications in a relational database environment with emphasis on Oracle.

#### Internet Database Administrator

Experience: 3 years' experience with the design, testing and implementation of Internet Systems database applications.

Education: Computer Science degree, or Bachelor of Science in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Performs administration of Internet-based database systems. Manages relational and Object database management systems, text retrieval systems, object repositories, other DBMSs, statistical packages, microcomputer application packages, SQL, HTML, PERL, or similar scripting languages.

### Data Conversion / Imagery Specialist / Digital Librarian

Experience: 3 years' experience with formatting, conversion, quality assurance, and managing digital information and data.

Education: Computer Science degree, or Bachelor of Science in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university or equivalent. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Responsible for Data conversion, quality assurance, and database loading tasks. Converts hardcopy reports, papers, and documents into a digital format. Performs scanning hardcopy information; manual or software assisted digitizing of hard-copy maps. Accesses remotely sensed imagery and prepares it for use in Geospatial applications. Operates and maintains a high-speed document/image scanner integrated with a PC workstation running Optical Character Recognition and Raster to Vector conversion software. Performs manual digitizing and key entry of attribute codes for spatial vector and imagery coverages. Develops and maintains Metadata and Interfaces with cognizant agency representatives to resolve issues relative to properly identifying and processing textual, imagery and spatial data into a digital format. Resolves technical data conversion problems and develops any required work-around procedures.

### Technical Writer/Editor

Experience: 3 years' experience in collecting and organizing information required for preparation of user's manuals, training materials, installation guides, proposals, and other reports and deliverables.

Education: Associate's Degree or the equivalent years' in experience. Four (4) years' of general experience is considered equivalent to an Associate's Degree.

Functional Responsibility: Edits functional descriptions, system specifications, user's manuals, special reports, or any other customer deliverables and documents. Assists in collecting and organizing information required for preparation of user's manuals, training materials, installation guides, proposals, and reports. Edits functional descriptions, system specifications, user's manuals, special reports, or any other customer deliverables and documents.

### Senior Technical Writer

Experience: 5 years' experience in collecting and organizing information required for preparation of user's manuals, training materials, installation guides, proposals, and other reports and deliverables. Specialized experience in HTML and XML formatted documents for publishing on the Web.

Education: Bachelor of Science in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university or equivalent. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Perform writing, editing, and rewriting of material of a technical nature. Prepares user guides and other technical documentation for presentations.

### GIS Specialist I

Experience: 3 years' developing, processing, maintaining, analyzing GIS and Geospatial data.

Education: Bachelor of Science in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university or equivalent. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Software system design and directs programming efforts using either Avenue or ArcView MacroLanguage scripting language. Registers CAD drawings to geographic coordinate systems using GIS software tools and techniques. Investigates/analyzes Geospatial database management system problems.

### GIS Specialist II

Experience: 5 years' management, processing, maintaining, analyzing GIS and Geospatial data.

Development of projects, applications, maps, and other products required to support requesting activities.

Education: Bachelor of Science in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Formats application programs to run over the Web. Performs software coding and documentation and to design specifications. Prepares application programs that will run in a LAN network environment.

Monitors and recommends efficient utilization of servers and peripheral devices. Develops process charts and functional block diagrams, codes the application, prepares test data and debugs programs. Develops spatial and attribute data QA/QC programs and procedures

#### Senior Geospatial Scientist

Experience: 7 years' management of GIS and Geospatial programs. Experience with Rapid Application Prototype development methodologies, and advanced database and JAVA-based programming processes. Experienced with business process engineering, and requirements development, and liaison with multiple agencies in coordination of applications and requirements.

Education: Master's Degree in Computer Science or a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Eight (8) years' of general experience is considered equivalent to a Master's Degree.

Functional Responsibility: Directs and controls the implementation and proper use of design/programming resources from program requirements and system specifications. Provides guidance and direction to project team members and supervises technical specialists and data processors in the implementation of database development projects. Determines operational impacts and coordinates problem resolution.

#### Logistics Analyst I

Experience: At least 3 years' experience in integrated logistics support (ILS) planning and analysis.

Education: Bachelor's Degree or equivalent and 6 years' of general experience. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Creates and helps execute plans for the integrated logistics support (ILS) of complex systems

Analyzes the adequacy and effectiveness of current and proposed logistics support provisions for complex systems

Where required, supervises other logistics personnel in executing assigned tasks

#### Logistics Analyst II

Experience: At least 5 years' experience in integrated logistics support (ILS) planning and analysis.

Education: Bachelor's Degree or equivalent and 6 years' of general experience. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Creates and helps execute plans for the integrated logistics support (ILS) of complex systems Develops ILS requirements for new systems based on user needs and missions Analyzes the adequacy and effectiveness of current and proposed logistics support provisions for complex systems Where required, supervises other logistics personnel in executing assigned tasks.

#### Logistics Specialist I

Experience: Must have 3 years' of relevant experience.

Education: Associate's Degree or the equivalent years' in experience. Four (4) years' of general experience is considered equivalent to an Associate's Degree.

Functional Responsibility: Performs logistics support analyses, level of repair analyses, integrated logistic support planning, and other ILS related documentation. Requires experience with MIL-STD-1369 and MIL-STD-1388/1.

Functional Responsibility:

### Logistics Specialist II

Experience: Must have 5 years' of relevant experience.

Education: Bachelor's Degree or equivalent and 6 years' of general experience. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Performs logistics support analyses, level of repair analyses, integrated logistic support planning, and other ILS related documentation. Requires experience with MIL-STD-1369 and MIL-STD-1388/1.

### Project Manager I

Experience: 4 years' experience in developing, specifying, managing, directing, controlling and executing basic tasks. Possesses leadership and management skills commensurate with level of experience. Exercises sound judgment and problem solving skills. May include experience as a subject matter specialist, technologist, administrator or engineer.

Education: Bachelor's Degree or equivalent and 6 years' of general experience. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Under the guidance of the Program Manager, will be responsible for the overall management of the specific task order(s) and insure that the technical solutions and schedules in the task order are implemented in a timely manner. Performs enterprise wide horizontal integration planning and interfaces to other functional systems. Leads individuals based upon performance criteria, and hiring authority of others. Performs functions of subject matter specialist, engineer, or technologist where qualified and appropriate. Accountable for all aspects of project performance. Demonstrates oral and written communication skills. Ensures that all required resources including manpower, production standards, computer time, and facilities are available for program implementation.

### Program Manager II

Experience: 8 years' experience in developing, specifying, managing, directing, controlling and executing tasks, projects and programs from simple to complex. Demonstrated leadership and management skills commensurate with experience. Capable of exercising overall program management, or working as deputy to a customer program manager to the extent specified in the delivery order. May include experience as a subject matter specialist, engineer, administrator or technologist.

Education: Master's degree in any discipline or combination of disciplines or Bachelor's degree and equivalent additional experience is required. Functional Responsibility: Serves as the contractor's single contract manager. Responsible for formulating and enforcing work standards, assigning contractor schedules, reviewing work discrepancies, supervising contractor personnel and communicating policies, purposes, and goals of the organization to subordinates. Directs the performance of a variety of related projects that may be organized by technology, program or client. Program areas typically represent more than three functional areas that may include engineering, systems analysis, quality control, administration, etc.

Develops cost, technical, and schedule baselines and controls program(s) accordingly. Establishes individual performance criteria, hires appropriate people and oversees their application. May perform some or all of the duties of Subject Matter Specialists, engineers, or technologists to the extent qualified and appropriate. Responsible for the effective management of funds and personnel, and is accountable for the quality and timely delivery of all contractual items.

### Program Manager III

Experience: Must have 15 years' of experience in a related field including supervisory or management experience.

Education: Master's degree in any discipline or combination of disciplines. Functional Responsibility: Plans, directs, coordinates, and controls technical and administrative activities for an entire program. Planning and directing technological improvements and project management implementation. Manage a diverse group of functional activities, subordinate groups of technical and administrative personnel. Oversees the technology development and/or application, marketing, and resource allocation within program client base. Reviews and

maintains the quality of technical work performed on the program. Makes technical judgments and provides advice on resolving technical problems. Ensures goals and objectives of program are accomplished within contract terms and conditions. Maintains the development and execution of business opportunities based on broad, general guidance. Interfaces with client management personnel and is adept in oral and written communications.

#### Executive Manager

Experience: Corporate officer assigned to provide overall vision and guidance for critical program elements in support of large team efforts that may involve multiple organizations and companies.

Education: Not applicable.

Functional Responsibility: Ability to make binding decisions relative to corporate resources and policy.

Provides overall vision and guidance for critical program elements. Provide high-level direction, budgetary, strategy formulation, political influence, acting either in concert with a team or as an individual. May perform as a manager, strategist, advisor, envoy, negotiator, or in any other manner designated by client and deemed acceptable by the contractor. Responsible for marketing new technology and follow-on business acquisitions.

#### Recognized Expert/Executive

Experience: Over 15 years' of experience in or directly related to complex, uncommon, or unique fields of endeavor specifically requested by the client. The skill category applies when the client requires a specific individual, widely recognized for his or her unique capabilities, achievements, or abilities, relative to specific client requirements. The individual should possess credentials and acclaim within the professional community relevant to client-designated tasks, advice or counsel. Recognizing the highly specific and variable nature of this skill category, the client should exercise broad latitude in consultation with the contractor to adjust, increase, combine or waive educational and experience criteria in order to fulfill his exceptional requirements.

Education: Master's Degree in any discipline acceptable to the client. A doctoral degree may substitute for three years' of the experience requirements above.

Functional Responsibility: Effort under this skill category is ordinarily incident to and in support of large team efforts and broad, difficult projects. It is usually intended to provide exceptional capabilities to enhance or ensure the effectiveness and productivity of a major client endeavor undertaken by a substantial team of client and/or contractor specialists. When directed by the client, it may be used to provide high level consultation, strategy formulation, consensus building, or influence, acting either in concert with a team or as an individual. May perform as a manager, strategist, advisor, analyst, envoy, negotiator, or in any other manner designated by client and accepted by contractor. May perform services in any discipline or level as designated by client and accepted by contractor.

#### Modeling and Simulation Scientist

Experience: 5 years' experience with Virtual Reality Modeling Language, Java, and 3D renderings, modeling, visualization, simulation, and development of synthetic environments where data from multiple sources is fused into a multidimensional visualization. Must have experience with translating specific analytical requirements into a visual representation in multiple dimensions. Familiar with Geospatial data and conversion of validated data into formats compatible with multi-dimensional analysis. Has applied GIS data, NIMA datasets, and attribute datasets supplied with various other data sources to visualization scenarios.

Education: Computer Science degree, or Bachelor of Science in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Responsible for processing and converting relevant data into a format compatible with multi-dimensional visualization and analysis. Provides a virtual representation of Geospatial, topographic, cultural, cadastral, temporal, and thematic data in a realist view of the area of interest.

Responsible for direction, development, and deployment of Web-based modeling and simulation applications.

#### Senior Computer Simulation & Modeling

Experience: 10 years' experience in Virtual Reality Modeling Language, Java, and 3D renderings, modeling, simulation, and visualization. Statistical and complex analytical experience is required including higher-order mathematics, and must have experience with translating specific analytical requirements into a visual representation in multiple dimensions. Must have developed and deployed Web/Browser-based multidimensional applications.

Education: Master's degree in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university or a Bachelor's Degree in a technical discipline with experience.

Functional Responsibility: Performs visualization and modeling of digital data. Creates, maintains, and modifies simulations of defense systems, subsystems and components. Integrates local models and simulations into networked simulations. Provides conversion and exchange services to allow electronic sharing of engineering design documents, models and simulations.

#### Network Engineer / LAN Administrator I

Experience: 2 years' of experience in LAN/WAN environments and possesses a MCSE certification. Certified in applicable LAN/WAN software products and applications and experienced in their implementation and integration. Experienced in anti-viral software products and their utilization.

Education: Technical Microsoft MCSE certification training plus one year of experience.

Functional Responsibility: Assists LAN/WAN Manager in network related problem resolutions, technical performance monitoring, and administrative issues. May assist with prioritization of network control center tasks.

#### Network Engineer/LAN Administrator II

Experience: 4 years' of general experience and possesses a MCSE certification.

Education: Associate's Degree in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university or equivalent and Microsoft MCSE certification training. Four (4) years' of general experience is considered equivalent to an Associate's Degree.

Functional Responsibility: Under supervision performs a variety of network engineering tasks that are broad in nature and are concerned with the design and implementation of integrated networks, including personnel, hardware, software and support facilities and/or equipment. Performs with some latitude for actions and decisions not fully reviewed. Plans and performs assignments in conformance with network design, engineering and customer specifications. Can install and configure hardware such as routers, switches, hubs and network monitoring devices. Responsible for the technical/engineering part of a major project or a project of lesser complexity and importance than those normally assigned to a higher-level engineer. Coordinates the activities of Network Technicians assigned to specific network engineering projects. May perform other duties as assigned.

#### Network Engineer/LAN Administrator III

Experience: 7 years' of general experience and possesses Certified Microsoft Engineer (MCSE) experienced in design and implementation of Microsoft Solutions in a PC-based, LAN-based, and/or WAN-based environment

Education: Bachelor's Degree or equivalent in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university and 6 years' of general experience with Microsoft MCSE Certification training. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Performs a variety of network engineering tasks, either independently or under supervision, which are broad in nature and are concerned with the design and implementation of integrated networks, including personnel, hardware, software and support facilities and/or equipment. Supervises team of Network Engineers through project completion. Performs design, installation, troubleshooting and support of LAN/MAN/WAN hardware, software and applications. Can install and configure hardware such as routers, switches, hubs and network monitoring devices. Develops and maintains cable plants and architecture,

communications transmission lines and all other attached devices. Analyzes Ethernet protocol packets and provide reports and recommendations on traffic analysis. Acts as point of contact for client needs.

#### Network Engineer/LAN Administrator IV

Experience: 10 years' experience with Certified Microsoft Engineer (MCSE) experienced in design and implementation of Microsoft Solutions in a PC-based, LAN-based, and/or WAN-based environment. Responsible for major technical/engineering projects of higher complexity and importance than those normally assigned to lower level engineers.

Education: Bachelor's Degree or equivalent in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university plus 15 years' specialized experience and a Microsoft MCSE certification. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Plans and performs network engineering research, design development, and other assignments in conformance with network design, engineering and customer specifications. Supervises team of Network Engineers through project completion. Coordinates the activities of Network Engineers and Network Technicians assigned to specific network engineering projects. May perform other duties as assigned.

#### Senior Business Process Analyst

Experience: 5 years' experience in business process facilitation and training, methodology development and evaluation, reengineering, best practice identification, change management, organizational development, and development of information systems.

Education: Bachelor's Degree or equivalent in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Responsible for facilitating business process engineering efforts for directed projects and customers. Develops process flow charts, functional dependencies, functional decomposition of process elements, process critique, process optimization, and implementation plans. Responsible for integrating organization focus and vision into process development, and translating management concerns and budgetary constraints into strategic process elements.

#### Website Developer/Administrator

Experience: 2 years' experience in developing Web sites for display, information, and interaction that functionally supports the organization mission. Experience with HTML, XML, JAVA, CGI, PERL is desired with additional experience in development, design, and deployment of Web sites. Must be familiar with Web Page development software such as MS FrontPage. Must have experience with Web Server (HTTP) and be familiar with supporting Web operations including troubleshooting, performance optimization, web statistics, and reporting. Must have experience with Website security, password/login protocols, secure socket layer protocols, and firewall systems.

Education: Associate's degree in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Four (4) years' of general experience is considered equivalent to an Associate's Degree.

Functional Responsibility: Responsible for the information base of the organization web site. Responsible for editing content, quality, style consistent with applicable standards and security protocols. Collaborates with subject matter authors on the team including finding, creating, and installing tools to create web content and check consistency, style, including liaison with graphic artists and development of interactive Web applications. Applies link validation routines and is responsible for consistent visual images, uniform fonts, formatting, icons, images, layout techniques, and modularization, including maintenance of HTML templates and image archives.

#### Application Programmer/Analyst I

Experience: 2 years' applicable experience as an applications programmer on large-scale information technology systems. Experience in organizational software development, and ability to develop complex software to satisfy design objectives. Demonstrated ability to work independently or under only general direction. Experience with C++, Visual Basic, PERL, CGI, JAVA, SQL desired.

Education: Bachelor's Degree or equivalent in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Analyzes functional business applications and design specifications for functional activities. Develops block diagrams and logic flowcharts. Translates detailed design into computer software. Tests, debugs, and defines requirements for the required product. Prepares required documentation, including both program-level and user-level documentation. Enhances software to reduce operating time or improve efficiency. Where required, supervises the efforts of other application programmers and technical staff

### Application Programmer/Analyst II

Experience: 5 years' experience as an applications programmer on large-scale information technology systems. Management experience in software development and support using formal specifications, data flow diagrams, other accepted design techniques and Computer-Aided Software Engineering (CASE) tools.

Experience in organizational software development, and ability to develop complex software to satisfy design objectives. Experience with C++, Visual Basic, PERL, CGI, JAVA, SQL required.

Education: Bachelor's Degree or equivalent in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree.

Functional Responsibility: Analyzes and studies complex system requirements. Designs software tools and subsystems to support software reuse and domain analyses and manages their implementation. Estimates software development costs and schedule. Reviews existing programs and assists in making refinements, reducing operating time, and improving current techniques. Write, debug, compile, test, and integrate computer programs. Evaluate computer program requirements and develop options. Install, configure, test, maintain, and debug computer hardware, software, systems, peripherals, and associated capabilities. Assure design compliance with DII-COE where appropriate.

### Application Programmer/Analyst III

Experience: 10 years' experience in defining economical standard computer operating systems and environments and applications; acquiring, tailoring, and testing computer operating systems, environments, and applications; packaging and distributing operating systems; and supporting operating systems and applications. At least five years' experience in managing the development of large automated systems integration projects that incorporate digital imaging or digital communications technology. Experience will include knowledge of commercial-off-the-shelf products and methods, which provide interoperable, portable, and scalable information technology options. May include a working knowledge and/or familiarity with Defense Information Infrastructure Common Operating Environment (DII-COE), DOD acquisition practices and policies and the higher order programming language specified in the task order to develop the required software.

Education: Master's degree in computer science, computer programming, software engineering, mathematics, computer engineering or related scientific/technical discipline from an accredited institution.

Functional Responsibility: Experience in developing standards-compliant software utilizing industry-leading operating systems, languages, protocols and relational databases: DOS/WINDOWS, DEC VAX/VMS, UNIX (e.g., Solaris, IRIX, HP-UX, and AIX), C, TCP/IP, and Oracle. In-depth knowledge of the design, operational use, and functional characteristics of standards-compliant (e.g., CALS or GOSIP) systems, such as scanning, user interface, optical storage, and index subsystems of digital imaging systems; or the input processing, network transmission, security, network management, and control subsystems of digital communications systems.

### Internet Design Specialist

Experience: 3 years' experience in the design of web sites and web pages and specialized experience with Virtual Reality Modeling Language, Java, and 3D renderings.

Education: Associate's degree in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university or equivalent experience. Four (4) years' of general experience is considered equivalent to an Associate's Degree.

Functional Responsibility: Creates and optimizes graphic images and logos, provides visual structure and incorporates interactive applications into web pages and collection designs.

### Internet/Intranet Developer Specialist I

Experience: At least 1 year experience in system analysis and design techniques for Internet or Intranet development, which may include, Hypertext Markup Language (HTML), Hypertext Transfer Protocol (HTTP), and Common Gateway Interface (CGI).

Education: Bachelor's Degree or equivalent in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree. With a Master's degree, no experience is required.

Functional Responsibility: Analyzes and develops internet/intranet application software processing wide range of capabilities, including numerous engineering, business, and network traffic management function. Works independently or under general direction.

### Internet/Intranet Developer Specialist II

Experience: At least 3 years' experience in system analysis and design techniques for Internet or Intranet development, which may include, Hypertext Markup Language (HTML), Hypertext Transfer Protocol (HTTP), and Common Gateway Interface (CGI), FrontPage, and Netscape software.

Education: Bachelor's Degree or equivalent in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree. With a Master's degree 1 year of general experience is required.

Functional Responsibility: Develops and applies organization wide information models for use in designing and building integrated, shared software and database management systems. Constructs sound, logical business improvement opportunities consistent with corporate Information Management guiding principles, cost savings, and open system architecture objectives. Provides daily supervision and direction to junior staff.

### Internet/Intranet Developer Specialist III

Experience: 5 years' experience with enterprise-wide set of disciplines for planning, analysis, design and construction of information systems on an enterprise-wide basis or across a major sector of the enterprise. Develops analytical and computational techniques and methodology for problem solutions.

Education: Bachelor's Degree or equivalent in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree. With a Master's degree 3 years' of general experience is required.

Functional Responsibility: Establishes system information requirements using analysis of the information exchange technologies in the development of enterprise-wide or large-scale information systems. Designs architecture to include the software, hardware, and communications to support the total requirements as well as provide for present and future cross-functional requirements and interfaces. Ensures these systems are compatible and in compliance with the standards for open systems architectures, the Open Systems Interconnection (OSI), and International Standards Organization (ISO) reference models, and profiles of standard such as: Institute of Electrical and Electronic Engineers (IEEE), Open Systems Environment (OSE) reference model, and across the application program interface (API). Provides daily supervision and direction to staff.

### Security Officer

Experience: 1 year experience in processing and handling DOD and corporate security protocols. Must be familiar with processing security clearances through the Defense Industrial Security system.

Education: Formal training certification with the Defense Industrial Security system.

Functional Responsibility: Handles personnel security information, manages security folders, audits and responds to queries and requests from the Defense Industrial Security Office.

#### Computer Security Specialist I

Experience: 3 years' experience in evaluating security threats to ADP systems and in technologies. Familiar with procedures that provide appropriate levels of system security against sabotage, subversion, tampering, or other undesired use.

Education: Bachelor's Degree or equivalent in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree

Functional Responsibility: Manages firewalls and network perimeter security systems. Documents and reports all systems changes, upgrades and entry requests. Develops pro-active network security procedures designed to prevent intrusion attacks. Performs network system security audits in accordance with IPSec, PKI and other formulated procedures. Analyzes risk factors and recommends procedures and products to prevent intrusion attacks.

#### Computer Security Specialist II

Experience: 5 years' experience in evaluating security threats to ADP systems and in technologies.

Experience with procedures that mitigate such threats analysis of organizational mission and user needs and development of requirements, systems, and procedures that provide appropriate levels of system security against sabotage, subversion, tampering, or other undesired use.

Education: Bachelor's Degree or equivalent in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree

Functional Responsibility: Analyzes and defines security requirements for Multilevel Security (MLS) issues. Designs, develops, engineers, and implements solutions to MLS requirements. 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 that also includes risk assessment. Analyzes systems to identify security risks or concerns and recommends appropriate remedies.

#### Training Specialist I

Experience: 3 years' experience in conducting the research necessary to develop and revise training courses and prepares appropriate training catalogs. Develops all instructor materials (course outline, background material, and training aids).

Education: Bachelor's Degree or equivalent in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree

Functional Responsibility: Develops all student materials (course manuals, workbooks, handouts, completion certificates, and course critique forms). Trains personnel by conducting formal classroom courses, workshops, seminars, and/or computer based/computer-aided training.

#### Training Specialist II

Experience: 5 years' in the development and revision of courses and preparation of appropriate training catalogs. Experience with preparation of instructor materials (course outline, background material, and training aids) and student materials (course manuals, workbooks, handouts, completion certificates, and course critique forms). Experience in training personnel by conducting formal classroom courses, workshops and seminars.

Education: Bachelor's Degree or equivalent in a recognized engineering, scientific, technical, or business management discipline from an accredited college or university. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree

Functional Responsibility: Excellent communications and problem solving skills. Performs system analysis for highly complex classes. Recommends most effective method to utilize equipment, where appropriate. Under general program direction, independently performs training within the field of expertise. May supervise the work of lower level trainers. Conducts the research necessary to develop and revise training courses. Develops all student materials (course manuals, workbooks, handouts, completion certificates, and course critique forms). Trains personnel by conducting formal classroom courses, workshops, seminars, and/or computer based/computer-aided training.

### Training Specialist III

Experience: 7 years' in the development and conduct of complex courses from start to completion.

Experience in the identification, development, implementation and conduct of training and instruction of technical-based subject matter related to computer hardware/software, communications, local and wide area networking, internet, video, imaging, business processes, government regulations, procurement/acquisition, strategic planning, etc., as required for a particular customer requirement.

Education: Bachelor's Degree or equivalent. Six (6) years' of general experience is considered equivalent to a Bachelor's Degree. With a Master's Degree, four (4) years' of general experience is required.

Functional Responsibility: Designs, develops, prepares and refines training curriculum and course materials for various classroom and other instructional environments. Possesses skills and knowledge in computer-based and multimedia training environments. Conducts training requirements surveys, designs computer-based and multimedia curriculum in response to specific system training requirements during the life cycle. Is intimately knowledgeable in the subject matters for which he/she is developing curriculum. Supervises Training Specialists in the instruction of individual trainees as well as whole classes of students in a variety of technical-based subject matter. Collaborates, when necessary, with outside entities.

**TERMS AND CONDITIONS APPLICABLE TO TERM SOFTWARE LICENSES (SPECIAL ITEM NUMBER 132-32), PERPETUAL SOFTWARE LICENSES (SPECIAL ITEM NUMBER 132-33) AND MAINTENANCE AS A SERVICE (SPECIAL ITEM NUMBER 132-34) OF GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY SOFTWARE**

**1. INSPECTION/ACCEPTANCE**

The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The ordering activity reserves the right to inspect or test any software that has been tendered for acceptance. The ordering activity may require repair or replacement of nonconforming software at no increase in contract price. The ordering activity must exercise its post acceptance rights (1) within a reasonable time after the defect was discovered or should have been discovered; and (2) before any substantial change occurs in the condition of the software, unless the change is due to the defect in the software.

**2. ENTERPRISE USER LICENSE AGREEMENTS REQUIREMENTS (EULA)**

The Contractor shall provide all Enterprise User License Agreements in an editable Microsoft Office (Word) format.

**3. GUARANTEE/WARRANTY**

a. Unless specified otherwise in this contract, the Contractor's standard commercial guarantee/warranty as stated in the contract's commercial pricelist will apply to this contract.

b. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract. If no implied warranties are given, an express warranty of at least 60 days must be given in accordance with FAR 12.404(b)(2)

c. Limitation of Liability. Except as otherwise provided by an express or implied warranty, the Contractor will not be liable to the ordering activity for consequential damages resulting from any defect or deficiencies in accepted items.

**4. TECHNICAL SERVICES**

The Contractor, without additional charge to the ordering activity, shall provide a hot line technical support number 877-289-5670 for the purpose of providing user assistance and guidance in the implementation of the software. The technical support number is available from Monday to Friday 9AM – 5PM EST.

**5. SOFTWARE MAINTENANCE**

a. Software maintenance as it is defined: (select software maintenance type) :

  X   1. Software Maintenance as a Product (SIN 132-32 or SIN 132-33)

Software maintenance as a product includes the publishing of bug/defect fixes via patches and updates/upgrades in function and technology to maintain the operability and usability of the software product. It may also include other no charge support that are included in the purchase price of the product in the commercial marketplace. No charge support includes items such as user blogs, discussion forums, on-line help libraries and FAQs (Frequently Asked Questions), hosted chat rooms, and limited telephone, email and/or web-based general technical support for user's self-diagnostics.

Software maintenance as a product does NOT include the creation, design, implementation, integration, etc. of a software package. These examples are considered software maintenance as a service.

Software Maintenance as a product is billed at the time of purchase.

**6. UTILIZATION LIMITATIONS - (SIN 132-32, SIN 132-33, AND SIN 132-34)**

- a. Software acquisition is limited to commercial computer software defined in FAR Part 2.101.
- b. When acquired by the ordering activity, commercial computer software and related documentation so legend shall be subject to the following:

- (1) Title to and ownership of the software and documentation shall remain with the Contractor, unless otherwise specified.

- (2) Software licenses are by site and by ordering activity. An ordering activity is defined as a cabinet level or independent ordering activity. The software may be used by any subdivision of the ordering activity (service, bureau, division, command, etc.) that has access to the site the software is placed at, even if the subdivision did not participate in the acquisition of the software. Further, the software may be used on a sharing basis where multiple agencies have joint projects that can be satisfied by the use of the software placed at one ordering activity's site. This would allow other agencies access to one ordering activity's database. For ordering activity public domain databases, user agencies and third parties may use the computer program to enter, retrieve, analyze and present data. The user ordering activity will take appropriate action by instruction, agreement, or otherwise, to protect the Contractor's proprietary property with any third parties that are permitted access to the computer programs and documentation in connection with the user ordering activity's permitted use of the computer programs and documentation. For purposes of this section, all such permitted third parties shall be deemed agents of the user ordering activity.

- (3) Except as is provided in paragraph 8.b(2) above, the ordering activity shall not provide or otherwise make available the software or documentation, or any portion thereof, in any form, to any third party without the prior written approval of the Contractor. Third parties do not include prime Contractors, subcontractors and agents of the ordering activity who have the ordering activity's permission to use the licensed software and documentation at the facility, and who have agreed to use the licensed software and documentation only in accordance with these restrictions. This provision does not limit the right of the ordering activity to use software, documentation, or information therein, which the ordering activity may already have or obtains without restrictions.

- (4) The ordering activity shall have the right to use the computer software and documentation with the computer for which it is acquired at any other facility to which that computer may be transferred, or in cases of Disaster Recovery, the ordering activity has the right to transfer the software to another site if the ordering activity site for which it is acquired is deemed to be unsafe for ordering activity personnel; to use the computer software and documentation with a backup

computer when the primary computer is inoperative; to copy computer programs for safekeeping (archives) or backup purposes; to transfer a copy of the software to another site for purposes of benchmarking new hardware and/or software; and to modify the software and documentation or combine it with other software, provided that the unmodified portions shall remain subject to these restrictions.

- (5) "Commercial Computer Software" may be marked with the Contractor's standard commercial restricted rights legend, but the schedule contract and schedule pricelist, including this clause, "Utilization Limitations" are the only governing terms and conditions, and shall take precedence and supersede any different or additional terms and conditions included in the standard

commercial legend.

**7. SOFTWARE CONVERSIONS - (SIN 132-32 AND SIN 132-33)**

Full monetary credit will be allowed to the ordering activity when conversion from one version of the software to another is made as the result of a change in operating system, or from one computer system to another. Under a perpetual license (132-33), the purchase price of the new software shall be reduced by the amount that was paid to purchase the earlier version. Under a term license (132-32), conversion credits which accrued while the earlier version was under a term license shall carry forward and remain available as conversion credits which may be applied towards the perpetual license price of the new version.

**8. DESCRIPTIONS AND EQUIPMENT COMPATIBILITY**

The Contractor shall include, in the schedule pricelist, a complete description of each software product and a list of equipment on which the software can be used. Also, included shall be a brief, introductory explanation of the modules and documentation which are offered.

**9. RIGHT-TO-COPY PRICING**

The Contractor shall insert the discounted pricing for right-to-copy licenses. Not Applicable

**TERMS AND CONDITIONS APPLICABLE TO INFORMATION TECHNOLOGY (IT)  
PROFESSIONAL SERVICES (SPECIAL ITEM NUMBER 132-51) AND IDENTITY ACCESS  
MANAGEMENT PROFESSIONAL SERVICES  
(SPECIAL ITEM NUMBER 132-60F)**

**\*\*\*\*NOTE: All non-professional labor categories must be incidental to, and used solely to support professional services, and cannot be purchased separately. Further, non-professional labor categories shall be offered under SIN 132 100 only.**

**1. SCOPE**

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

**2. PERFORMANCE INCENTIVES I-FSS-60 Performance Incentives (April 2000)**

- a. Performance incentives may be agreed upon between the Contractor and the ordering activity on individual fixed price orders or Blanket Purchase Agreements under this contract.
- b. The ordering activity must establish a maximum performance incentive price for these services and/or total solutions on individual orders or Blanket Purchase Agreements.
- c. Incentives should be designed to relate results achieved by the contractor to specified targets. To the maximum extent practicable, ordering activities shall consider establishing incentives where performance is critical to the ordering activity's mission and incentives are likely to motivate the contractor. Incentives shall be based on objectively measurable tasks.

**3. 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 (Deviation – May 2003) 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.

**4. PERFORMANCE OF SERVICES**

- a. The Contractor shall commence performance of services on the date agreed to by the Contractor and the ordering activity.
- b. The Contractor agrees to render services only during normal working hours, unless otherwise agreed to by the Contractor and the ordering activity.
- c. The ordering activity 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 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.

**5. STOP-WORK ORDER (FAR 52.242-15) (AUG 1989)**

(a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either-

(1) Cancel the stop-work order; or

(2) Terminate the work covered by the order as provided in the Default, or the Termination for Convenience of the Government, clause of this contract.

(b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly, if-

(1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and

(2) The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided, that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.

(c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.

(d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

**6. INSPECTION OF SERVICES**

In accordance with FAR 52.212-4 CONTRACT TERMS AND CONDITIONS--COMMERCIAL ITEMS (MAR 2009) (DEVIATION I - FEB 2007) for Firm-Fixed Price orders and FAR 52.212-4 CONTRACT TERMS AND CONDITIONS □ COMMERCIAL ITEMS (MAR 2009) (ALTERNATE I □ □ OCT 2008) (DEVIATION I – FEB 2007) applies to Time-and-Materials and Labor-Hour Contracts 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 (Dec 2007) Rights in Data – General, may apply.

**8. RESPONSIBILITIES OF THE ORDERING ACTIVITY**

Subject to security regulations, the ordering activity shall permit Contractor access to all facilities necessary to perform the requisite IT Professional Services.

**9. INDEPENDENT CONTRACTOR**

All IT Professional 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 ordering activity.

## **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 ordering activity contract, without some restriction on ordering 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 ordering activity, ordering activities 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 Professional services. Progress payments may be authorized by the ordering activity 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 ordering activity 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 at FAR 52.212-4 (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to time-and-materials orders placed under this contract. For labor-hour orders, the Payment under Time-and-Materials and Labor-Hour Contracts at FAR 52.212-4 (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to labor-hour orders placed under this contract. 52.216-31(Feb 2007) Time-and-Materials/Labor-Hour Proposal Requirements—Commercial Item Acquisition As prescribed in 16.601(e)(3), insert the following provision:

(a) The Government contemplates award of a Time-and-Materials or Labor-Hour type of contract resulting from this solicitation.

(b) The offeror must specify fixed hourly rates in its offer that include wages, overhead, general and administrative expenses, and profit. The offeror must specify whether the fixed hourly rate for each labor category applies to labor performed by—

- (1) The offeror;
- (2) Subcontractors; and/or
- (3) Divisions, subsidiaries, or affiliates of the offeror under a common control.

## **13. RESUMES**

Resumes shall be provided to the GSA Contracting Officer or the user ordering activity 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 activity 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 PROFESSIONAL SERVICES AND PRICING**

a. The Contractor shall provide a description of each type of IT Service offered under Special Item Numbers 132-51 IT Professional Services should be presented in the same manner as the Contractor sells to its commercial and other ordering activity 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 Professional Services shall be in accordance with the Contractor's customary commercial practices; e.g., hourly rates, monthly rates, term rates, and/or fixed prices, minimum general experience and minimum education.

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

**EXAMPLE:** Commercial Job Title: System Engineer

Minimum/General Experience: Three (3) years of technical experience which applies to systems analysis and design techniques for complex computer systems. Requires competence in all phases of systems analysis techniques, concepts and methods; also requires knowledge of available hardware, system software, input/output devices, structure and management practices.

Functional Responsibility: Guides users in formulating requirements, advises alternative approaches, conducts feasibility studies.

Minimum Education: Bachelor's Degree in Computer Science