



**AUTHORIZED FEDERAL SUPPLY SERVICE
MULTIPLE AWARD SCHEDULE**

SIN 54151S - 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

SIN 54151HEAL – HEALTH INFORMATION TECHNOLOGY SERVICES

SIN OLM – Order Level Materials

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.

Technatomy Corporation
3877 Fairfax Ridge Road, Suite 205C
Fairfax, Virginia 22030
Phone: (703) 268-5525
<http://www.technatomy.com>

Contract Number: **47QTCA18D00JT**
Period Covered by Contract: **08/31/2018 through 08/30/2023**

General Services Administration
Pricelist current through Modification #A812

Products and ordering information in this Authorized Information Technology Schedule Pricelist are also available on the GSA Advantage! System (<http://www.gsaadvantage.gov>).

CUSTOMER INFORMATION:

1. Awarded Special Item Number(s):

SIN	Description
54151S	Professional Information Technology Services
54151HEAL	Health Information Technology Services
OLM	Order Level Materials

1b. Identification of the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract: Beginning on page 7

1c. Descriptions of all corresponding commercial job titles with experience, functional responsibility and education: Beginning on page 8

2. Maximum Order: \$500,000

3. Minimum Order: \$100

4. Geographic Coverage: Domestic and Overseas

5. Point of Production: N/A

6. Prices Shown Herein are Net (discount deducted)

7. Quantity Discount: None

8. Prompt Payment Terms: Net 30

9. Government Purchase Cards: Will be accepted above the micro-purchase threshold.

10. Foreign Items: None

11. Time of Delivery: Technatomy Corporation shall deliver or perform services in accordance with the terms negotiated in an agency's order.

11b. Expedited Delivery: Consult with Contractor

11c. Overnight/2-Day Delivery: Consult with Contractor

11d. Urgent Requirements: Consult with Contractor

12. FOB Point: Destination

13. Ordering Address: Technatomy Corporation
Contracts
3877 Fairfax Ridge Road, Suite 205C
Fairfax, Virginia 22030

- 14. Payment Address:** Technatomy Corporation
Accounting
3877 Fairfax Ridge Road, Suite 205C
Fairfax, Virginia 22030
- 15. Warranty Provisions:** Not applicable
- 16. Export Packing charges:** Not applicable
- 17. Terms and conditions of Government Purchase Card Acceptance:** Contact Technatomy Corporation for terms and conditions of Government Purchase Card acceptance.
- 18. Terms and conditions of rental, maintenance, and repair:** Not applicable
- 19. Terms and conditions of installation:** Not applicable
- 20. Terms and conditions of repair parts:** Not applicable
- 20a. Terms and conditions for any other services:** Not applicable
- 21. List of service and distribution points:** Not applicable
- 22. List of participating dealers:** Not applicable
- 23. Preventive maintenance:** Not applicable
- 24a. Environmental attributes, e.g., recycled content, energy efficiency, and/or reduced pollutants:** Not applicable
- 24b. Contact Technatomy Corporation for Section 508 compliance information.** The EIT standards can be found at: <http://www.section508.gov>
- 25. DUNS Number:** 011506149
- 26. Technatomy Corporation is registered in the System for Award Management (SAM) database.**

**TERMS AND CONDITIONS APPLICABLE TO INFORMATION TECHNOLOGY (IT)
PROFESSIONAL SERVICES (SPECIAL ITEM NUMBER 54151S)**

1. SCOPE

- a. The prices, terms and conditions stated under Special Item Number 54151S Information Technology Professional Services apply exclusively to IT Services within the scope of this Information Technology Schedule.
- b. The Contractor shall provide services at the Contractor's facility and/or at the ordering activity location, as agreed to by the Contractor and the ordering activity.

2. PERFORMANCE INCENTIVES

- 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 in accordance with this clause.
- 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

The Inspection of Services–Fixed Price (AUG 1996) (Deviation – May 2003) clause at FAR 52.246-4 applies to firm-fixed price orders placed under this contract. The Inspection–Time-and-Materials and Labor-Hour (JAN 1986) (Deviation – May 2003) clause at FAR 52.246-6 applies to time-and-materials and labor-hour orders placed under this contract.

7. RESPONSIBILITIES OF THE CONTRACTOR

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City, or otherwise) covering work of this character. If the end product of a task order is software, then FAR 52.227-14 (Deviation – May 2003) 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 Services.

9. INDEPENDENT CONTRACTOR

All IT 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 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.



**GSA HOURLY RATES
SIN 54151S**

Labor Category	8/31/18	8/31/19	8/31/20	8/31/21	8/31/22
	- 8/30/19	- 8/30/20	- 8/30/21	- 8/30/22	- 8/30/23
Project Manager / Senior Business Analyst	\$172.52	\$175.11	\$177.74	\$180.40	\$183.11
Senior BPR / Application Engineer	\$134.46	\$136.48	\$138.53	\$140.61	\$142.72
Electronic Document Management / Knowledge Engineer	\$134.46	\$136.48	\$138.53	\$140.61	\$142.72
Systems Analyst / Computer Programmer	\$99.84	\$101.34	\$102.86	\$104.40	\$105.97
Business Analyst / Functional Analyst II	\$91.85	\$93.23	\$94.63	\$96.05	\$97.49
Installation Engineer I / Project Coordinator I	\$94.01	\$95.42	\$96.85	\$98.30	\$99.78
Test Engineer I	\$91.31	\$92.68	\$94.07	\$95.48	\$96.91
Test Engineer II	\$75.32	\$76.45	\$77.60	\$78.76	\$79.94
SQA Tester II	\$75.18	\$76.30	\$77.45	\$78.61	\$79.79
Application Engineer I	\$90.23	\$91.58	\$92.95	\$94.35	\$95.76
Network Engineer I	\$133.13	\$135.12	\$137.15	\$139.21	\$141.29
Network Engineer II	\$118.33	\$120.11	\$121.91	\$123.74	\$125.59
Systems Engineer I	\$120.31	\$122.11	\$123.95	\$125.81	\$127.69
Application Developer II	\$110.31	\$111.96	\$113.64	\$115.34	\$117.07
Application Developer III	\$92.66	\$94.05	\$95.46	\$96.89	\$98.34
Technical Writer II	\$71.79	\$72.86	\$73.96	\$75.07	\$76.19



SIN 54151S Labor Category Descriptions

ITEM NUMBER	TITLE
GSA-001	PROJECT MANAGER / SENIOR BUSINESS ANALYST
<p>Minimum General Experience: Eight (8) years of general IT experience and four (4) years of specialized experience in database centric solutions such as Oracle, e-commerce, data warehousing, knowledge management, ERP and other information systems.</p>	
<p>Functional Responsibility: Functional responsibilities include, but are not limited to, manage the day to day activities associated with the design and development of information systems, manage development team and build collaborative environment with business users and management team, facilitate development of information system architecture, work with vendors to assist in the selection of system components, and develop project plan, and monitor and advise on the control of the project throughout project lifecycle. Technical responsibilities may include, system design, software development, database design, database administration, system maintenance and user support.</p>	
<p>Minimum Education: Bachelor's Degree in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).</p>	

ITEM NUMBER	TITLE
GSA-002	SENIOR BPR/APPLICATION ENGINEER
<p>Minimum General Experience: Three (3) years experience in the BPR field in: applications development, systems analysis, database development and training or deployment of BPR systems</p>	
<p>Functional Responsibility: Functional responsibilities include, but are not limited to, analyze and develop BPR systems including the on-site implementation of system and related user training. Responsibility may include the assessment necessary to plan and design a BPR to meet clients' requirements. Direct and perform extensive customization and applications interface programming on required hardware and software platforms as needed to provide integrated applications. May be required to develop modern business methods, identify best practices, and create and assess performance measurements.</p>	
<p>Minimum Education: Bachelor's Degree in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).</p>	

ITEM NUMBER	TITLE
GSA-003	ELECTRONIC DOCUMENT MANAGEMENT/KNOWLEDGE ENGINEER
<p>Minimum General Experience: Two (2) years experience in the EDMS field in: applications</p>	

development, systems analysis, database development and training or deployment of EDMS systems
Functional Responsibility: Functional responsibilities include, but are not limited to, analyze and develop EDMS systems including the on-site implementation of system and related user training. Responsibility may include the assessment necessary to plan and design an EDMS to meet clients' requirements. Direct and perform extensive customization and applications interface programming on required hardware and software platforms as needed to provide integrated applications.
Minimum Education: Bachelor's Degree in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).

ITEM NUMBER	TITLE
GSA-004	SYSTEMS ANALYST/COMPUTER PROGRAMMER
Minimum General Experience: Six (6) years experience in systems analysis and design techniques for computer information systems	
Functional Responsibility: Functional responsibilities include, but are not limited to, perform, lead, and coordinate activities in such technical/functional areas as: requirements analysis, software design, database design, software development, software integration, software documentation, system test, evaluation, user training and other technically related tasks.	
Minimum Education: Bachelor's Degree in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	

ITEM NUMBER	TITLE
GSA-005	BUSINESS ANALYST/FUNCTIONAL ANALYST II
Minimum General Experience: Five (5) years experience operations research, mathematics, computer science, cost accounting or related scientific or technical discipline.	
Functional Responsibility: Functional responsibilities include, but are not limited to, experience in the effective use of data provided by cost estimators to create overall cost versus benefit assessment while considering functional benefits, technical performance, risks, and schedule concerns. Responsibilities may include gathering business requirements and creating use cases, stories and wireframes. Analyze user needs, business and systems environments, technical context and system constraints to determine functional, cross-functional, and non-functional requirements. Analyze collected requirements, translate into business and technical IT solutions that meet all stakeholders' needs and expectations.	
Minimum Education: Bachelor's Degree in Operations Research, Mathematics, Computer Science, Cost Accounting or related scientific or technical field (or equivalent combination of education and related IT experience).	



ITEM NUMBER	TITLE
GSA-006	INSTALLATION ENGINEER I/PROJECT COORDINATOR I
<p>Minimum General Experience: Ten (10) years experience computer science, electronics engineering or other engineering or technical discipline.</p>	
<p>Functional Responsibility: Functional responsibilities include, but are not limited to, creating plans and approaches for executing product installation. Responsibilities may include working with site managers in execution of installations. Installing a variety of IT systems, networks, hardware and software in a variety of complex and simple installation sites. Identifying potential risks and creating strategies for mitigating risks. Oversees all aspects on an IT deployment ensuring full commissioning is completed.</p>	
<p>Minimum Education: Bachelor's Degree in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).</p>	

ITEM NUMBER	TITLE
GSA-007	TEST ENGINEER I
<p>Minimum General Experience: Five (5) years experience computer science, electronics engineering or other engineering or technical discipline.</p>	
<p>Functional Responsibility: Functional responsibilities include, but are not limited to, working with developers, end users and organizations to create test plans and test scripts. Coordinate with test sites and other team participants to plan test events and create reports. Responsibilities may including tracking problems and reports on errors that are identified. Configure necessary hardware and operating environments as needed to complete assigned testing. Provide comprehensive technical expertise on IT products, operating systems, software, hardware, systems and networks and specialized environments. Writing or assisting in the development of test plans and test procedures. Manages defect database under the guidance of senior QA engineers.</p>	
<p>Minimum Education: Bachelor's Degree in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).</p>	

ITEM NUMBER	TITLE
GSA-008	TEST ENGINEER II
<p>Minimum General Experience: Three (3) years experience computer science, electronics engineering or other engineering or technical discipline.</p>	
<p>Functional Responsibility: Functional responsibilities include, but are not limited to, coordination and</p>	



execution of test events in accordance with approved test plans, procedures and scripts. Responsibilities may include ensures that test environments are set up accurately. Responsibilities may include creating test reports, testing IT hardware, software, systems and networks.

Minimum Education: Bachelor's Degree in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).

ITEM NUMBER	TITLE
GSA-009	SQA TESTER II
<p>Minimum General Experience: Three (3) years experience software quality assurance and testing of legacy mainframe and/or web-based enterprise systems or other related engineering or technical discipline.</p>	
<p>Functional Responsibility: Functional responsibilities include, but are not limited to, experience in the coordination and execution of test events in accordance with approved test plans, procedures and scripts. Responsibilities may include the ability to ensure that test environments are set up accurately. Create test reports, test IT hardware, software, systems and networks. Utilizes appropriate test methodologies, analyzes testing requirements as the basis for developing testing scenarios for a test level to be executed. Designs testing scenarios and test cases that will demonstrate conformance to all functional and non-functional requirements, relative to the test level as defined in the business or technical specifications. Gathers and analyzes quality statistics to determine trends and documents findings. Performs quality reviews of software to measure performance against requirements and procedures and advises SQA Manager in preparing action plan following each quality review.</p>	
<p>Minimum Education: Bachelor's Degree in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).</p>	

ITEM NUMBER	TITLE
GSA-010	APPLICATION ENGINEER I
<p>Minimum General Experience: Eight (8) years experience computer science, electronics engineering or other related engineering or technical discipline.</p>	
<p>Functional Responsibility: Functional responsibilities include, but are not limited to creating logical and functional software code in a variety of languages. Understanding and articulating the benefits and risks associated with different coding languages in different functional environments. Responsibilities may include completing development tasks to implement technologies such as multi-threading and parallel programming handling; formulating and defining existing C# .Net Web applications and transforms designs into the desired future state. Develops innovative solutions to complex problems; translates project requirements into system understanding.</p>	

Minimum Education: Bachelor's Degree in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).

ITEM NUMBER	TITLE
GSA-011	NETWORK ENGINEER I
<p>Minimum General Experience: Nine (9) years experience computer science, electronics engineering or other engineering or technical discipline.</p>	
<p>Functional Responsibility: Functional responsibilities include, but are not limited to plans, supports and evaluates complex existing network systems and provides recommendations for resources required to maintain and/or expand service levels. Provides highly skilled technical assistance in network planning, engineering and architecture. Responsibilities may include providing and developing technical standards and interface applications, identify and evaluate new products and provide solutions for network problems. Interface with internal/external customers and vendors to determine system needs. Plan and incorporate how new network resources and applications will exist on the network. Provide monthly metrics for network availability and bandwidth usage as well as other metrics as requested. Network capacity planning, use of network management tools to discover, map and maintain network. Network equipment OS and version upgrades. Conducts research of new technologies and implementation strategies. Monitors and maintains network interfaces to insure high level performance and makes modifications and enhancements as needed. Documents procedures and keeping network diagrams and related material up to date. Handles escalated user problems, questions, and request on network issues. Leads and directs work of other Network Engineers.</p>	
<p>Minimum Education: Bachelor's Degree in Computer Science, Computer Engineering, Electrical Engineering or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).</p>	

ITEM NUMBER	TITLE
GSA-012	NETWORK ENGINEER II
<p>Minimum General Experience: Six (6) years experience computer science, electronics engineering or other engineering or technical discipline.</p>	
<p>Functional Responsibility: Functional responsibilities include, but are not limited to plans, supports and evaluates complex existing network systems and provides recommendations for resources required to maintain and/or expand service levels. Responsibilities may include providing and developing technical standards and interface applications, identify and evaluate new products and provide solutions for network problems. Interface with internal/external customers and vendors to determine system needs. Plan and incorporate how new network resources and applications will exist on the network. Provide monthly metrics for network availability and bandwidth usage as well as other metrics as requested. Network capacity planning, use of network management tools to</p>	

discover, map and maintain network. Network equipment OS and version upgrades. Conducts research of new technologies and implementation strategies. Monitors and maintains network interfaces to insure high level performance and makes modifications and enhancements as needed. Documents procedures and keeping network diagrams and related material up to date. Handles escalated user problems, questions, and request on network issues.

Minimum Education: Bachelor's Degree in Computer Science, Computer Engineering, Electrical Engineering or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).

ITEM NUMBER	TITLE
GSA-013	SYSTEMS ENGINEER I
Minimum General Experience: Four (4) years experience computer science, system engineering or other engineering or technical discipline.	
Functional Responsibility: Functional responsibilities include, but are not limited to technical support in system architecture, system design, system integration and technical management. Responsibilities may include assisting in providing technical input to the systems engineering process. Provide requirements analysis. Prepare and present systems assurance reviews. Identify requirements and deficiencies in hardware and software products. Advises customer in product selection and use, capacity planning operations and performance management. Provide guidance to ensure engineering policies and standards are applied across the development, deployment and operation of tools and services	
Minimum Education: Bachelor's Degree in Computer Science, Computer Information Systems or relevant technical or scientific field (or equivalent combination of education and related IT experience).	

ITEM NUMBER	TITLE
GSA-014	APPLICATION DEVELOPER II
Minimum General Experience: Seven (7) years experience computer science, electronics engineering or other engineering or technical discipline.	
Functional Responsibility: Functional responsibilities include, but are not limited to, creating logical and functional software code in a variety of languages, understanding and articulating the benefits and risks associated with different coding languages in different functional environments. Reacting to problems and correcting the program as necessary.	
Minimum Education: Bachelor's Degree in Computer Science, Computer Engineering, Electrical Engineering or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	



ITEM NUMBER	TITLE
GSA-015	APPLICATION DEVELOPER III
<p>Minimum General Experience: Five (5) years experience computer science, electronics engineering or other engineering or technical discipline.</p>	
<p>Functional Responsibility: Functional responsibilities include, but are not limited to, designing and developing Internet applications using JAVA or other advanced Internet development codes. Developing and maintaining database management systems. Responsibilities may include performing requirements analysis, design, develop tests, debugs and maintains Internet applications. Prepare required documentation; streamlines software to improve efficiency, provides technical direction to other programmers and may lead/ design/programming teams.</p>	
<p>Minimum Education: Bachelor's Degree in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).</p>	

ITEM NUMBER	TITLE
GSA-016	TECHNICAL WRITER II
<p>Minimum General Experience: Three (3) years experience writing technical documentation such as user manuals, installation guides and release notes or other related technical discipline.</p>	
<p>Functional Responsibility: Functional responsibilities include, but are not limited to, explaining highly technical data and information in simplistic grade school language for end users of complex IT systems and projects. Ability to use a variety of word processing, spreadsheet, graphics and scheduling tools. Able to gather and convert data into a written narrative. Provide document versioning requirements, file naming conventions, process draft deliverable or reports into required formats, provide presentation development support, process mapping support, as well as support all written communications efforts and coordination with standard document templates.</p>	
<p>Minimum Education: Associates Degree or 2 year technical school in computer science, electronics engineering or relevant technical, engineering or scientific technical field (or equivalent combination of education and related IT experience).</p>	



**TERMS AND CONDITIONS APPLICABLE TO HEALTH INFORMATION TECHNOLOGY (IT) SERVICES
(SPECIAL ITEM NUMBER 54151HEAL)**

Vendor suitability for offering services through the new Health IT SIN are be in accordance with the following laws and standards when applicable to the specific task orders, including but not limited to:

- Health Information Technology for Economic and Clinical Health Act of 2009 (HITECH)
- The Health Insurance Portability and Accountability Act of 1996 (HIPAA)
- National Institute of Standards and Technology (NIST) Federal Information Processing Standards (FIPS) and Special Publications
- Federal Information Security Management Act (FISMA) of 2002

1. SCOPE

- a. The labor categories, prices, terms and conditions stated under Special Item Number 54151HEAL Health Information Technology Services apply exclusively to Health IT Services within the scope of this Information Technology Schedule.
- b. This SIN is limited to Health IT Services only. Software and hardware products are out of scope. Hardware and software can be acquired through different Special Item Numbers on the Multiple Award Schedule.
- c. This SIN provides ordering activities with access to Health IT services.
- d. Health IT Services provided under this SIN shall comply with all Healthcare certifications and industry standards as applicable at the task order level.
- e. The Contractor shall provide services at the Contractor’s facility and/or at the

2. ORDER

- a. Agencies may use written orders, Electronic Data Interchange (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

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.

5. 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 (Deviation – May 2003) Rights in Data – General, may apply.

6. RESPONSIBILITIES OF THE ORDERING ACTIVITY

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

7. INDEPENDENT CONTRACTOR

All Health IT 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.

8. 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.

9. INVOICES

The Contractor, upon completion of the work ordered, shall submit invoices for IT 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.

10. RESUMES

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

11. 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.

12. 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.

13. DESCRIPTION OF IT SERVICES AND PRICING

a. The Contractor shall provide a description of each type of IT Service offered under Special Item Numbers 54151S IT 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 Services shall be in accordance with the Contractor's customary commercial practices; e.g., hourly rates, monthly rates, term rates, and/or fixed prices.



**GSA HOURLY RATES
SIN 54151HEAL**

Labor Category	8/31/18	8/31/19	8/31/20	8/31/21	8/31/22
	– 8/30/19	– 8/30/20	– 8/30/21	– 8/30/22	– 8/30/23
HIT Application/Business Analyst	\$106.54	\$108.13	\$109.76	\$111.40	\$113.07
HIT Configuration/Release Manager	\$181.96	\$184.69	\$187.46	\$190.28	\$193.13
HIT Cyber Security Engineer	\$199.36	\$202.35	\$205.39	\$208.47	\$211.60
HIT Database Administrator	\$157.70	\$160.07	\$162.47	\$164.90	\$167.38
HIT Developer	\$92.23	\$93.61	\$95.02	\$96.44	\$97.89
HIT Functional Analyst	\$114.65	\$116.37	\$118.11	\$119.89	\$121.68
HIT Integration Engineer	\$140.52	\$142.63	\$144.77	\$146.94	\$149.15
HIT Network Engineer	\$72.10	\$73.18	\$74.28	\$75.40	\$76.53
HIT Process Analyst	\$167.41	\$169.92	\$172.47	\$175.06	\$177.69
HIT Program Analyst	\$91.11	\$92.48	\$93.87	\$95.27	\$96.70
HIT Program Manager	\$112.98	\$114.68	\$116.40	\$118.14	\$119.92
HIT Project Manager	\$99.29	\$100.78	\$102.30	\$103.83	\$105.39
HIT QA Manager	\$151.53	\$153.80	\$156.10	\$158.45	\$160.82
HIT Security Analyst/Technician	\$128.85	\$130.78	\$132.75	\$134.74	\$136.76
HIT System Administrator	\$82.46	\$83.69	\$84.95	\$86.22	\$87.52
HIT System Architect	\$121.48	\$123.31	\$125.16	\$127.03	\$128.94
HIT Subject Matter Expert	\$216.08	\$219.32	\$222.61	\$225.95	\$229.34
HIT Technical Writer	\$78.49	\$79.67	\$80.86	\$82.08	\$83.31
HIT Test Engineer	\$77.91	\$79.08	\$80.26	\$81.47	\$82.69
HIT Trainer	\$80.99	\$82.21	\$83.44	\$84.69	\$85.96



SIN 54151HEAL Labor Category Descriptions Category Descriptions

ITEM NUMBER	TITLE
GSAHIT-001	HIT APPLICATION/BUSINESS ANALYST
Minimum General Experience: 5 years	
Functional Responsibility: A HIT Application/Business Analyst should possess health related IT experience in the analysis, design, and integration of information systems and commercial-off-the-shelf (COTS) and development software. Should be well versed in understanding structured analysis and design methodologies for the translation of systems requirements from business needs with a proven track record. May be able to evaluate cost factors and risk.	
Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	

ITEM NUMBER	TITLE
GSAHIT-002	HIT CONFIGURATION/RELEASE MANAGER
Minimum General Experience: 7 years	
Functional Responsibility: A HIT Configuration/Release Manager should have experience and be able to develop, document, and implement detailed plans for ensuring configuration control for health related IT programs, projects, and tasks. When issues arise, should be able to identify and implement solutions. Maintain thorough records and documentation to ensure accurate product builds, part ordering and product and/or software updates. Should have experience in management of individual releases of software, hardware or other system components. Should have experience in coordinating with QA, Development, packaging and hardware teams. The release manager should have experience in documenting releases, risks and in maintaining the schedule of planned releases.	
Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	

ITEM NUMBER	TITLE
GSAHIT-003	HIT CYBER SECURITY ENGINEER
Minimum General Experience: 7 years	
Functional Responsibility: A HIT Cyber Security Engineer has extensive IT experience in all aspects of Cyber Security with a vast array of healthcare oriented IT systems involving end user as well as enterprise level networks. Experience in designing and implementing systems that meet agency Cyber Security policy and regulations. Should have extensive experience in Cyber Security Tools,	



network topologies, intrusion detection, PKI, and secured networks.

Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).

ITEM NUMBER	TITLE
GSAHIT-004	HIT DATABASE ADMINISTRATOR
Minimum General Experience: 5 years	
Functional Responsibility: A HIT Database Administrator can create, implement and manage expansive database administration programs concerning health IT systems. Has experience in reviewing database performance trends, and identifying opportunities for improvement.	
Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	

ITEM NUMBER	TITLE
GSAHIT-005	HIT DEVELOPER
Minimum General Experience: 5 years	
Functional Responsibility: A HIT Developer should be able to create logical and functional software code in a variety of languages that address health IT systems. Should have experience in understanding and articulating the benefits and risks associated with different coding languages in different functional environments. Should have experience reacting to problems and correcting the program as necessary.	
Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	

ITEM NUMBER	TITLE
GSAHIT-006	HIT FUNCTIONAL ANALYST
Minimum General Experience: 6 years	
Functional Responsibility: A HIT Functional Analyst should have significant experience with the analysis of health IT business, functional, technical, activities, and events. Is responsible for working with users and customers to document and strategize for process improvements for current business processes (business process reengineering). Responsible for providing market research on conditions that impact the overall operational efficiency of an organization and identifying symptoms for process	



improvement. Should have deep knowledge of process and risks

Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).

ITEM NUMBER	TITLE
GSAHIT-007	HIT INTEGRATION ENGINEER
Minimum General Experience: 7 years	
Functional Responsibility: A HIT Integration Engineer should have experience in the creation of strategies and plans for integration of multiple health IT systems/subsystems into an operational unit, ensuring full functional and performance capabilities are retained. The integration engineer should be experienced in introducing new hardware or software into a new or existing environment while minimizing disruption and mitigating risks.	
Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	

ITEM NUMBER	TITLE
GSAHIT-008	HIT NETWORK ENGINEER
Minimum General Experience: 5 years	
Functional Responsibility: A HIT Network Engineer plans, supports and evaluates complex existing network systems and make recommendations for resources required to maintain and/or expand service levels concerning health IT systems. This resource will provide highly skilled technical assistance in network planning, engineering and architecture. Also provides and develops technical standards and interface applications; identifies and evaluates new products; provide solutions for network problems. Interfaces with internal/external customers and vendors to determine system needs. Plans and incorporates how new network resources and applications will exist on the network. Provide monthly metrics for network availability and bandwidth usage as well as other metrics as requested. Responsible for network capacity planning. Use network management tools to discover, map and maintain the network. Responsible for network equipment OS and version upgrades. Responsible for conducting research of new technologies and implementation strategies. Monitor and maintain network interfaces to insure its highest level of performance and makes modifications and enhancements as needed. Responsible for documenting procedures and keeping network diagrams and related material up to date. Handle escalated user problems, questions, and request on network issues. Work with other groups within IS to resolve network related issues as needed. Leads and directs work of other Network Engineers.	
Minimum Education: Associate’s Degree	



ITEM NUMBER	TITLE
GSAHIT-009	HIT PROCESS ANALYST
Minimum General Experience: 7 years	
Functional Responsibility: A HIT Process Analyst has experience gathering, compiling, and analyzing business process data specifically as it relates to health IT systems and the business systems that rely on IT; Has a thorough understanding on how to identify trends, errors, and missing data. Can reliably create alternate depictions of data to identify and highlight issues. Can clearly summarize findings in summary reports. Can create and document to-be process benefits in graphic, narrative and oral formats.	
Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	

ITEM NUMBER	TITLE
GSAHIT-010	HIT PROGRAM ANALYST
Minimum General Experience: 5 years	
Functional Responsibility: A HIT Program Analyst should have knowledge in how to plan, analyze and evaluate the effectiveness of health IT operating programs. Should be able to use source data to evaluate the effectiveness of programs and business processes. Should be able to use qualitative and quantitative analytical skills to assess the effectiveness of the operations. Senior PA should be able to effectively manipulate data to present program status and make recommendations on improving business processes.	
Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	

ITEM NUMBER	TITLE
GSAHIT-011	HIT PROGRAM MANAGER
Minimum General Experience: 6 years	
Functional Responsibility: A HIT Program Manager should have experience with diverse health IT projects both large and small. Should be well versed in full systems development life cycle, enterprise wide network engineering, strategic information planning, business process reengineering, structure and management practices. Should be able to identify and mitigate risks to the program. Should be able to manage to cost, schedule and performance.	
Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	

experience).

ITEM NUMBER	TITLE
GSAHIT-012	HIT PROJECT MANAGER
Minimum General Experience: 5 years	
Functional Responsibility: A HIT Project Manager should have experience managing health Information Technology related projects. Should be well versed in life cycle and project management methodologies. Should have experience in tracking costs, schedule and performance progress. Should be able to identify and mitigate risks.	
Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	

ITEM NUMBER	TITLE
GSAHIT-013	HIT QA MANAGER
Minimum General Experience: 7 years	
Functional Responsibility: The HIT QA Manager should have experience in creating and implementing a detailed plan to ensure overall quality of health IT products, services and systems. They should have experience in resolving all project or program release problems and take corrective action, escalating as needed, to resolve and achieve results. They should also have experience in assuring the viability, functionality and effectiveness of essential tools.	
Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	

ITEM NUMBER	TITLE
GSAHIT-014	HIT SECURITY ANALYST/TECHNICIAN
Minimum General Experience: 6 years	
Functional Responsibility: A HIT Security Analyst/Technician has experience in implementing health IT security solutions and assure successful implementation. Has knowledge of security principles, policy and regulations. IT experience with Cyber Security document management and familiar with security and privacy rules.	
Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT	

experience).	
ITEM NUMBER	TITLE
GSAHIT-015	HIT SYSTEM ADMINISTRATOR
Minimum General Experience: 5 years	
Functional Responsibility: A HIT System Administrator has the thorough knowledge to create plans to assure effective management, operations, and maintenance of health IT systems and/or networks. Manages teams of system admins and is able to prioritize work and identify high risk critical problems and dedicate appropriate resources. Ha extensive knowledge of a wide variety of systems and networks to include high volume/high availability systems.	
Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	

ITEM NUMBER	TITLE
GSAHIT-016	HIT SYSTEM ARCHITECT
Minimum General Experience: 6 years	
Functional Responsibility: A HIT System Administrator has the thorough knowledge to create plans to assure effective management, operations, and maintenance of health IT systems and/or networks. Manages teams of system admins and is able to prioritize work and identify high risk critical problems and dedicate appropriate resources. Ha extensive knowledge of a wide variety of systems and networks to include high volume/high availability systems.	
Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	

ITEM NUMBER	TITLE
GSAHIT-017	HIT SUBJECT MATTER EXPERT
Minimum General Experience: 7 years	
Functional Responsibility: A HIT Subject Matter Expert should have extensive experience in the coordination of program and project leaders to identify requirements for system architecture concerning health IT systems. Should be able to identify strategies for addressing requirements. Should have extensive experience with analysis of requirements against fiscal, schedule, and performance issues. Has extensive experience in taking program requirements and is able to create an architecture vision having experience in high volume and high availability networks and systems. Experience in creating and conveying to team members the architectural vision for a program or project. Is responsible for dictating design choices to software developers, including but not limited	



to: platforms, coding and technical levels. Experience in establishing and enforcing standards and practices. Overseeing the development team, he manages the full life cycle of the software development process. Has extensive software development experience and thorough knowledge of a variety of programming languages and logic.

Minimum Education: Master of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).

ITEM NUMBER	TITLE
GSAHIT-018	HIT TECHNICAL WRITER
Minimum General Experience: 5 years	
<p>Functional Responsibility: A HIT Technical Writer should have experience in editing health IT related narrative and graphic products to identify and correct grammatical formatting and logic errors and to identify logical inconsistencies that will require author attention. Should have experience in the application a variety of word processing, spreadsheet, graphics, and scheduling tools. Should have experience in meeting with authors and other team representatives to review documents, compile inputs/corrections, resolve incompatible comments, and provide final publishable documentation. Should have experience in explaining in simple language scientific and technical ideas that are difficult for the average reader to understand.</p>	
<p>Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).</p>	

ITEM NUMBER	TITLE
GSAHIT-019	HIT TEST ENGINEER
Minimum General Experience: 5 years	
<p>Functional Responsibility: A HIT Test Engineer should have experience working with developers, end users and organizations to create health IT systems test plans and test scripts. Coordinate with test sites and other team participants to plan test events. Experience in creating reports. Tracks problems and reports on errors that are identified. Should have experience with configuring necessary hardware and operating environments as needed to complete assigned testing. Should have comprehensive technical expertise on IT products, operating systems, software, hardware, systems and networks and specialized environments. Should have experience in writing or assisting in the development of test plans and test procedures. Should manage the defect database under the guidance of senior QA engineers.</p>	
<p>Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT</p>	



experience).

ITEM NUMBER	TITLE
GSAHIT-020	HIT TRAINER
Minimum General Experience: 5 years	
Functional Responsibility: A HIT Trainer should have experience in coordinating multiple health IT related training programs, conducting live training, including complex IT technical training and utilizing multiple training techniques and tools with various media with multiple student skill levels and class sizes.	
Minimum Education: Bachelor of Science in Computer Science, Information Systems, or relevant technical, engineering or scientific field (or equivalent combination of education and related IT experience).	