

<b>Attachment 1 - Pricing</b>	
<b>Contractor:</b>	Q.E.D., Inc. D/B/A QED National
<b>Contract Number:</b>	PB70737
<b>Lots Awarded:</b>	Lot 2
<p><b>Authorized Users Please Note the Following:</b></p> <p>A competitive Mini-Bid is required for every transaction under this Centralized Contract. (Section 1.3 of Attachment 16 - How to Use this Contract)</p> <p>The Contractor acknowledges that any mini-bid under this Centralized Contract which includes pricing in excess of the “maximum Not-To-Exceed price” shall be rejected by the Authorized User. (Sections 7.9 of the Contract - Reasonableness of Price)</p> <p>Price increases will only apply to the OGS Centralized Contracts and shall not be applied retroactively to Authorized User Agreements or any Mini-bids already submitted to an Authorized User. (Section 8.5 of the Contract - Pricelist Adjustments)</p> <p>When provided for in the Mini-Bid and resultant Authorized User Agreement, an Authorized User may reimburse travel expenses. All rules and regulations associated with this travel can be found at <a href="http://osc.state.ny.us/agencies/travel/travel.htm">http://osc.state.ny.us/agencies/travel/travel.htm</a>. In no case will any travel reimbursement be paid that exceeds these rates. All travel will be paid only as part of a deliverable specified within the Authorized User Agreement and must be billed with that associated Invoice with receipts attached. (Section 7.12 of the Contract - Travel, Meals and Lodging)</p>	

Q.E.D., Inc. D/B/A QED National Approved Price List			Number of Approved Titles:	51	Last Updated:	6/16/2025
Item Number	SKU	Job Title	Job Description	Minimum Education / Certification Level	Minimum Years of Experience	NYS Contract Price (Not to Exceed Hourly Rate, Exclusive of Travel)
1	QED-001	Application Developer/Programmer Analyst	4+ years of experience in application design, development of specifications and/or prototypes, and the development, maintenance, and testing of computer programs. Develops program specifications/detail design documents, codes, tests and debugs applications programs. Develops new programs to support specific customer needs. May participate in requirements gathering for applications, data modeling and project planning. Supports changes and enhancements from development through production; recommends and implements system enhancements and new releases. Meets with users to determine specific needs and feasibility of pending routine projects.	Associates degree in Computer Sciences, Engineering or related field or equivalent work experience.	4+	\$67.50
2	QED-002	Senior Application Developer/Senior Programmer Analyst	8+ years of experience in application and systems design, developing specifications and/or prototypes, and the development, maintenance, and testing of programs and systems. Leads requirements gathering for medium to large applications. Develops program specifications / detail design documents, codes, tests and debugs applications programs. Reviews and recommends vendor products, develops technical specifications and interfaces with other applications, and provides guidance to and reviews the work of other team members. Assists users in testing, training, and preparation for operations. May function as a team leader. Develops and/or leads the development of prototypes. Has an understanding of object oriented development tools and techniques, and has worked on multiple platforms and/or with multiple methodologies.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	8+	\$85.50
3	QED-003	Project Manager	Contract Personnel will be called upon to plan and direct the development and implementation of major systems projects in a client server and/or web environment. Projects may include package installation and configuration and/or in-house application development. Contract Personnel will provide day-to-day, formalized, continuing work direction and leadership to assigned teams of application developers covering all phases of development, ranging from feasibility and requirements phase through development, implementation, documentation, user training, and production turnover. This will include the scheduling, assignment, review of project work, scope change management and schedule extensions. Contract Personnel will work in an independent mode with Authority management review of interim and end results.	NA	0-5	\$77.00
4	QED-004	Project Manager	Contract Personnel will be called upon to plan and direct the development and implementation of major systems projects in a client server and/or web environment. Projects may include package installation and configuration and/or in-house application development. Contract Personnel will provide day-to-day, formalized, continuing work direction and leadership to assigned teams of application developers covering all phases of development, ranging from feasibility and requirements phase through development, implementation, documentation, user training, and production turnover. This will include the scheduling, assignment, review of project work, scope change management and schedule extensions. Contract Personnel will work in an independent mode with Authority management review of interim and end results.	NA	5-10	\$108.00
5	QED-005	Project Manager	Contract Personnel will be called upon to plan and direct the development and implementation of major systems projects in a client server and/or web environment. Projects may include package installation and configuration and/or in-house application development. Contract Personnel will provide day-to-day, formalized, continuing work direction and leadership to assigned teams of application developers covering all phases of development, ranging from feasibility and requirements phase through development, implementation, documentation, user training, and production turnover. This will include the scheduling, assignment, review of project work, scope change management and schedule extensions. Contract Personnel will work in an independent mode with Authority management review of interim and end results.	NA	10+	\$166.00
6	QED-006	Application Architect	8+ years of development experience with 5+ years in the design, execution, and oversight of large-scale technology projects. Responsible for application design and development. Leads the design of complete enterprise-wide IT solutions, which incorporate technical infrastructure, hardware, and software. Identifies necessary interfaces between enterprise solution applications and legacy IT environments. Supports all program/project planning and milestone development. Supports business case analysis and identification of alternative solutions and resulting business impacts. Serves as a team leader in the integration of solutions, construction of applications, development of new business opportunities, and building relationships with clients.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	8+	\$150.00
7	QED-007	Technology/Network/Systems Architect	8+ years of experience in multiple system environments, including mainframe, client/server web, and distributed computing architectures, with 5+ years of experience designing, developing, and oversight of large-scale technology projects. Combines multiple technologies to provide alternative solutions. Leads efforts to analyze, plan, and conduct the current computing environment and architecture. This individual understands the various types of tools and technologies on the market and their appropriate usage and can design an entire system configuration including hardware, software, and communications. May be responsible for tool evaluation effort, including the definition of the evaluation criteria, identification of tools to be evaluated, and the actual evaluation. Can define a disaster recovery plan and present the client with various options. This individual can work with and manage multiple suppliers. The candidate may perform as a team leader when required. Identifies design options and middleware choices and develops implementation plans. Responsible for database design and administration, application build process, and foundation code.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	8+	\$150.35
8	QED-008	Analyst/Business Analyst	4+ years of experience in Systems Development and/or General Business Analysis and gathering and analyzing user requirements. Analyzes the overall business and information needs of an organization in order to develop solutions to business and related technology problems. Identifies and supports changes and enhancements from development through production, recommending and implementing system enhancements. Provides daily support to assigned client base and serves as a liaison between clients and programmers. Analyzes and documents business requirements to recommend process flows and prepares specifications to support specific customer needs and system upgrades. Works with programmers and users to ensure accuracy of enhancements. Consults on development and updating of training materials and user manuals and prepares documentation for assigned products. Participates in conversions, mergers, and/or maintenance and development projects, including analysis and testing. Completes special projects, and performs systems testing and other assigned duties.	Associates degree in Computer Sciences, Engineering or related field or equivalent work experience.	4+	\$63.00

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9	QED-009	Senior Analyst/Senior Business Analyst	8+ years of experience in Systems Development and/or General Business and 5 years gathering and analyzing user requirements. Performs all functions of a Business Analyst such as analyzing the overall business and information needs of an organization in order to develop solutions for business and related technology problems. Identifies and supports changes and enhancements from development through production, recommending and implementing system enhancements. Provides daily support to assigned client base and serves as a liaison between clients and programmers. Analyzes and documents business requirements to recommend process flows and prepares specifications to support specific customer needs and system upgrades. Works with programmers and users to ensure accuracy of enhancements. Consults on development and updating of training materials and user manuals and prepares documentation for assigned products. Participates in on versions, mergers, maintenance and / or development projects, including analysis and testing. Completes special projects, performs systems testing and other assigned duties. In addition, may perform feasibility analysis, scope project, project strategy, deliverable prioritization and recommend alternative solutions (such as to develop or buy software/hardware). May perform cost estimating, cost benefits analysis, and ROI (return on investments). Develops high-level implementation plans. Performs as a team leader when necessary. Can facilitate workshops, such as JAD, RAD and DRP sessions. May produce data and process models.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	8+	\$72.00
10	QED-010	Business Process Analyst	Contract Personnel will be called upon to model, simulate and enhance business process diagrams. He/she will be responsible for discovering, validating, documenting and communicating business processes through analyzing, modeling and simulating current and future states. Contract Personnel will be required to show process stakeholders how to identify and solve process challenges through simulation of different scenarios, analysis of performance metrics and optimization techniques.	NA	5-10	\$95.00
11	QED-011	Business Process Modeler/Trainer	8+ years of total experience and 5 years of experience gathering and analyzing user requirements and processes and/or 5 years of training. Responsibilities may include: performing business analysis methodologies to elicit requirements from business users; assessing and documenting existing business processes, identifying unnecessary steps and incorporating value-added steps; documenting business cases, fit-gap analysis documents, and functional specification; writing specifications, process flows, and process mapping; business process re-engineering analysis and design; performing SWOT analysis; documenting, communicating, and validating requirements throughout the system, process, or product/service development lifecycle; developing test scenarios, scripts, and data; and reviewing test results and/or assessing the implementation of appropriate solutions to ensure they perform to the required specifications and are capable of achieving the design capabilities. Training may include classroom training or computer based training and curriculum development.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	8+	\$150.00
12	QED-012	Computer Support Analyst	Candidate must possess ability to assemble microcomputers and LaserJet and inkjet printers in a network environment. Must be able to support commercially available microcomputer software. Must be able to support applications developed by IT, and have experience in one or several of the following areas: <ul style="list-style-type: none"> <li>· In-depth knowledge of Automatic Job Scheduling software (such as Zeke and BMC)</li> <li>· One year's hands-on experience installing and troubleshooting software and hardware in a Windows network environment</li> <li>· Moving and lifting equipment may be required</li> </ul>	NA	5-10	\$54.00
13	QED-013	Computer Support Analyst	Candidate must possess ability to assemble microcomputers and LaserJet and inkjet printers in a network environment. Must be able to support commercially available microcomputer software. Must be able to support applications developed by IT, and have experience in one or several of the following areas: <ul style="list-style-type: none"> <li>· In-depth knowledge of Automatic Job Scheduling software (such as Zeke and BMC)</li> <li>· One year's hands-on experience installing and troubleshooting software and hardware in a Windows network environment</li> <li>· Moving and lifting equipment may be required</li> </ul>	NA	10+	\$72.00
14	QED-014	Data Architect/Modeler	5+ years of experience in Database Administration with 3 years of Data Architecture / Data Modeling experience. Designs and builds relational databases. Develops logical and physical data models. Creates, enhances and maintains the data models. Develops policies and procedures for translating logical data model into executable physical data models in support of initiatives. Conducts/attends requirement definition meetings with end users and documents system requirements. Analyzes system requirements and assesses data model impact. Enhances or creates system's logical data model to meet requirements. Applies Data Modeling Standards and the logical Data Naming Conventions and applies the same enhancements in the physical data model, using the Data Modeling Standards and the physical Data Naming Conventions appropriate for the specific back-end database. Documents definitions for all new data model constructs. Documents the data model enhancements in a standard document. Must possess the ability to communicate the details of the logical model to both technical and non-technical staff. The Data Architect develops strategies for data acquisitions, archive recovery, and implementation of a database. Cleans and maintains the database by removing and deleting old data. Must be able to design, develop, and manipulate databases, data warehouses, and multidimensional databases. May lead and direct the work of others.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	5+	\$109.14

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15	QED-015	Systems/Database Administrator/Database Developer	4+ years of general IT experience with at least 2 years as a Systems/Database Administrator/Database Developer. Provides technical expertise, designs, develops, implements, operates, and maintains the systems / database. Evaluates systems to improve system performance and functionality. Installs, supports, and maintains new server hardware and software infrastructure, which may include database, email, anti-spam and virus protection. Sets up user accounts, permissions, and passwords. Monitors utilization, ensuring the most cost-effective and efficient use of server environment. Suggests and provides IT solutions to business and management problems. Performs maintenance tasks on existing test and production environments that include modifying system/database and migrating changes through various environments. Monitors the global view, access to, and assures the safekeeping of the systems / databases. Assumes overall responsibility for the management of assigned system / database with 24-hour emergency technical support. Designs, tests, and implements back-up, recovery and restart procedures; monitors and performs problem resolution. Defines required system/database administration policies, procedures, standards, and guidelines.	Associates degree in Computer Sciences, Engineering or related field or equivalent work experience.	4+	\$117.00
16	QED-016	Senior Systems/Sr. Database Administrator/Sr. Database Developer	8+ years of general IT experience with at least 4 years as a database administrator. Performs the functions of Systems/Database Administrator/Database Developer such as provides technical expertise, designs, develops, implements, operates, and maintains the system/database. Evaluates system to improve system performance and functionality. Installs, supports and maintains new server hardware and software infrastructure, which may include database, email, anti-spam and virus protection. Sets up user accounts, permissions and passwords. Monitors utilization ensuring the most cost-effective and efficient use of server environment. Suggests and provides IT solutions to business and management problems. Performs maintenance tasks on existing test and production environments that include modifying database sizes and migrating changes through various environments. Monitors the global view, access to, and assures the safekeeping of the systems/databases. Assumes overall responsibility for the management of assigned system/database products with 24-hour emergency technical support. Designs, tests, and implements back-up, recovery and restart procedures. Defines required system/database administration policies, procedures, standards, and guidelines. In addition, supervises all changes and additions to system/database/server requested by application development teams.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent experience.	8+	\$157.63
17	QED-017	PC Support Technician	Candidate will install, update and maintain computer hardware and software on computer equipment. The position will provide Microsoft Windows and Apple OS support for the unit in the Technology Department assigned to troubleshoot and deploy computer equipment and software. The position will provide computer-related services and support to users, perform system administration tasks, perform hardware and software technical reviews and evaluations, coordinate project requirements with departments, and perform other duties as required. Candidate may be expected to work / report to any of customer's facilities depending on work assignments. Moving and lifting equipment will be required.	NA	0-5	\$43.00
18	QED-018	PC Support Technician	Candidate will install, update and maintain computer hardware and software on computer equipment. The position will provide Microsoft Windows and Apple OS support for the unit in the Technology Department assigned to troubleshoot and deploy computer equipment and software. The position will provide computer-related services and support to users, perform system administration tasks, perform hardware and software technical reviews and evaluations, coordinate project requirements with departments, and perform other duties as required. Candidate may be expected to work / report to any of customer's facilities depending on work assignments. Moving and lifting equipment will be required.	NA	5-10	\$54.00
19	QED-019	PC Support Technician	Candidate will install, update and maintain computer hardware and software on computer equipment. The position will provide Microsoft Windows and Apple OS support for the unit in the Technology Department assigned to troubleshoot and deploy computer equipment and software. The position will provide computer-related services and support to users, perform system administration tasks, perform hardware and software technical reviews and evaluations, coordinate project requirements with departments, and perform other duties as required. Candidate may be expected to work / report to any of customer's facilities depending on work assignments. Moving and lifting equipment will be required.	NA	10 +	\$68.00
20	QED-020	Customer Support Specialist	Analyze and correct complex data processing problems; define on-line system interruptions caused by hardware, software, network, or operating system failures. Troubleshoot network hardware, software, and communications problems for mainframe, midrange, and client/server computer environments. Provide statistical reports, trend analyses, information, and problem status feedback to customers, senior management, and department executives. Support, service, and maintain the Help Desk client/server LAN and its operating system and database software. Provide all levels of customer support; provide off-hour support for critical problems that cannot be resolved by onsite personnel.	NA	5-10	\$50.00
21	QED-021	Customer Support Specialist	Analyze and correct complex data processing problems; define on-line system interruptions caused by hardware, software, network, or operating system failures. Troubleshoot network hardware, software, and communications problems for mainframe, midrange, and client/server computer environments. Provide statistical reports, trend analyses, information, and problem status feedback to customers, senior management, and department executives. Support, service, and maintain the Help Desk client/server LAN and its operating system and database software. Provide all levels of customer support; provide off-hour support for critical problems that cannot be resolved by onsite personnel.	NA	10+	\$65.00
22	QED-022	Help Desk Operator/Help Desk Agent	6 months to 1 year of experience in a Help Desk Function. Provides support to end users for personal computer systems on a variety of issues. Identifies, researches, and resolves technical problems. Responds to telephone calls, email, and personnel requests for technical support. Tracks and monitors the problem to ensure a timely resolution.	Associates degree in Computer Sciences, Engineering or related field or equivalent work experience.	6 months to 1 year	\$52.91
23	QED-023	Help Desk Analyst/Help Desk Technician	2+ years of experience in a Help Desk Function. Provides support to end users for personal computer systems on a variety of issues. Identifies, researches, and resolves technical problems. Responds to telephone calls, email, and personnel requests for technical support. Tracks and monitors the problem to ensure a timely resolution.	Associates degree in Computer Sciences, Engineering or related field or equivalent work experience.	2+	\$62.05

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24	QED-024	Network Administrator	4+ years of experience in network support, maintenance and break/fix, moves, adds, installs, and changes. Supports, monitors, tests, and troubleshoots routine to moderately complex hardware and software problems pertaining to the network. Recommends and schedules repairs. Provides end-user support. Installs and configures workstations. Completes special projects and performs other duties as assigned.	Specialized training in Server / LAN / WAN Technology.	4+	\$64.80
25	QED-025	Senior Network Administrator	8+ years of experience in network support, maintenance and management and break/fix, moves, adds, installs, and changes. Supports, monitors, tests, and troubleshoots complex hardware and software problems pertaining to the network. Recommends and schedules repairs. Provides end-user support. Installs and configures workstations. Provides client consulting services on distributed systems products. Coordinates LAN / WAN server service activities. Provides remote and on-site LAN / WAN server operational support, maintenance, problem solving, configuration, and installation. Serves as a liaison between clients and vendors and other technical groups to resolve complex distributed systems problems. Plans, designs, installs, manages, coordinates, and maintains overall integration of the network. Performs concurrent project management to all aspects of distributed system implementation.	Technical/Trade/Business School certificate, CNA or Microsoft Professional preferred.	8+	\$72.00
26	QED-026	Network Engineer	Minimum 4+ years of experience in the design and implementations of LAN/WAN, and knowledge of all aspects of networking. Installs, maintains, and supports computer communication networks to ensure the smooth operation of communication networks in order to provide maximum performance and availability for their users, such as staff, clients, customers, and suppliers. Ensures that all equipment complies with industry standards. Analyzes and resolves faults. Undertakes routine preventative measures and implements, maintains, and monitors network security. Provides training and technical support for users with varying levels of IT knowledge. Supervises other staff where necessary, such as help-desk technicians, works closely with other departments/organizations, and collaborates with other IT staff. Plans and implements future IT developments and undertakes project work. Manages the website and keeps internal networks running. Monitors the use of the web by employees.	Associates degree in Computer Sciences, Engineering or related field or equivalent work experience.	4+	\$65.70
27	QED-027	Network LAN/WAN/SAN Engineer	Manages call restrictions, T1, QSIG, and integrating multiple PBX's. TCP/IP protocols including SNMP and RMON protocols; interior routing protocols with expert level knowledge of OSPF, EIGRP and BGP implementation and Design; performance and traffic management and network queuing algorithms. Layers 1 through 4 and associated equipment V.35, switching equipment, circuit termination equipment. Storage Area Networks, PBX, Voicemail, and ACD Systems. (Both Digital and IP based systems, Nortel CS1000E, Nortel Callpilot and Siemens Hicom/HIPath systems preferred).	NA	10 +	\$108.00
28	QED-028	Senior Network Engineer	Minimum 8+ years of experience in the design and implementations of LAN/WAN, comprehensive knowledge of all aspects of networking, network performance monitoring, capacity planning tools and techniques, and the internet. Performs functions of Network Engineer and leads, plans, organizes, directs, and develops all aspects of assigned major complex projects. Analyzes and recommends vendor products, develops technical specifications, and interfaces with applications and other vendor products. Mentors and reviews the work of other team members. Investigates ways to improve existing processes and implements those improvements. Responsibilities include interfacing with application developers and systems architects to ensure that infrastructure requirements of applications are clearly understood and documented well in advance of deployment. Interfaces with server designers to ensure that proposed network solutions are integrated with the server infrastructure. Provides expert direction for level 1 and level 2 support personnel in the resolution of complex problems.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	8+	\$76.50
29	QED-029	System Operator/Computer Operator	2+ years of experience as a computer operator. Operates and monitors computer equipment. Performs routine tasks to maintain computer equipment and their peripherals. Loads peripheral equipment such as tapes and printer paper for operating runs. Observes peripheral equipment and error messages displayed on monitor of terminal to detect faulty output or machine stoppage.	Associates degree in Computer Sciences, Engineering or related field or its equivalent work experience.	2+	\$72.00
30	QED-030	Project Manager	4+ years of experience in managing all phases of systems development from concept through installation and maintenance. Overall responsibility for establishing project scope, performing the detailed planning, and managing project execution for the completion of small to medium sized projects. Defines the project deliverables, tracks milestones and incurred expenses versus planned expenses, schedules roles and resources, evaluates risks, and recommends contingency plans. This individual manages the development of the technical strategy. Assigns resources and tasks, manages quality assurance, resolution of issues, status reviews and reporting, development of standards, change control, customer support, and compliance with all policies and procedures. Facilitates workshops such as JAD, RAD and DRP sessions.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	4+	\$90.00
31	QED-031	Senior Project Manager	8+ years of experience with expertise in managing all phases of systems development from concept through installation and maintenance. Overall responsibility for establishing project scope, performing the detailed planning, and managing project execution for the completion of medium or large sized projects. Defines the phase deliverables, tracks milestones and incurred expenses versus planned expenses, schedules roles and resources, evaluates risks and recommends contingency plans. This individual manages the development of the technical strategy. Assigns resources and tasks and manages quality assurance, resolution of issues, status reviews and reporting, development of standards, change control, customer support, and compliance with all policies and procedures. Facilitates workshops such as JAD, RAD and DRP sessions.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	8+	\$106.72

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32	QED-032	Project Management/QA Oversight/Governance	10+ years of experience with Project Management, PM/QA-related projects, and/or GRC (Governance, Risk and Compliance). The Project Management/Quality Assessment (PM/QA) consultants advise customers in ways to enhance the organization's ability to deliver the full scope of projects on time and on budget. Responsibilities may include review of project plans and reports in detail, identification of issues and obstacles, and recommendation of changes or adjustments to project plans including the adequacy of project team organization, communications, processes, reporting, financial planning, and reliance on in-house versus outside expertise. Assists in the design and implementation of project monitoring tools and methodologies. Reviews to-be process narratives, process flows, and procedures. Reviews communications, training, and organizational readiness deliverables, providing guidance on ways to improve process and content. Provides recommendations to client to ensure that the planned efforts are completed on time and within budget. Advises customer on the appropriate tools for documentation, versioning, and change management are employed. Advises client of accepted standards and best practices as they relate to quality assurance and controls. Develops project and executive level risk reports and status reports. Reviews project task orders, statements of work, change orders, and related project scope documentation for completeness, consistency and clarity, and advises management on reasonableness as requested. Performs audits to insure consistency with contractual/business requirements and delivered product(s).	Bachelor's Degree	10+	\$140.65
33	QED-033	Quality Assurance/Test Engineer/Software Tester	3+ years of engineering and/or system analysis or programming experience, including 2 years of quality assurance experience. Must have working knowledge of quality assurance methodologies. Develops, publishes, and implements test plans and test cases. Writes and maintains test automation. Develops quality assurance standards. Ensures all documentation is complete, accurate, and correct. Witnesses and documents the test and integration phases. Certifies that deliverables have met established quality requirements.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	3+	\$76.50
34	QED-034	Quality Assurance Engineer	<ul style="list-style-type: none"> <li>· Write detailed test plans and test cases for functional testing.</li> <li>· Automating complex test cases using UFT scripting;</li> <li>· Maintain automation framework including developing reusable components;</li> <li>· Performs full functional &amp; regression testing on assigned projects;</li> <li>· Review and provide input on all project level documentation;</li> <li>· Contribute to and assist in implementing improvements in test methods and strategies;</li> <li>· Log, track, and validate resolution of identified defects; and</li> <li>· Escalate quality concerns to management.</li> </ul>	Four-year college degree in Computer Science or related field	5-10	\$90.00
35	QED-035	Quality Assurance Engineer	<ul style="list-style-type: none"> <li>· Write detailed test plans and test cases for functional testing.</li> <li>· Automating complex test cases using UFT scripting;</li> <li>· Maintain automation framework including developing reusable components;</li> <li>· Performs full functional &amp; regression testing on assigned projects;</li> <li>· Review and provide input on all project level documentation;</li> <li>· Contribute to and assist in implementing improvements in test methods and strategies;</li> <li>· Log, track, and validate resolution of identified defects; and</li> <li>· Escalate quality concerns to management.</li> </ul>	Four-year college degree in Computer Science or related field	10+	\$115.00
36	QED-036	Network Security Architect/Analyst	<ul style="list-style-type: none"> <li>· Develop, implement and manage network security policies, plans, and procedures, including security architectures, firewall policies, intrusion detection systems and security data collection systems.</li> <li>· Detect, investigate, document, and report network security violations, intrusions, or other inappropriate use.</li> <li>· Support the development and implementation of the MTA's security awareness and virus management programs; evaluates security products and tests security systems performance; assists in planning, implementing, and testing disaster recovery procedures; participates in making formal risk assessments related to network security.</li> <li>· Participate in implementing and maintaining Windows Active Directory security</li> <li>· Support user community and help desk to resolve network security issues</li> </ul>	NA	10+	\$166.00

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37	QED-037	Security Engineer	4+ years of IT experience, including a minimum of 2 years of specialized experience in security. Responsibilities may include but not limited to the following: Analysis criteria for access controls, storage, reproduction, transmission, and destruction of data maintained by automated systems requiring security. Performs security assessments and evaluations of systems. Plans and conducts formal on-site program evaluations of complex information processing systems. Plans and conducts quantitative and qualitative security risk analyses, security evaluations, and audits of information processing systems. Determines security compliance. Analyzes criteria for access controls, storage, reproduction, transmission, and destruction of data maintained by automated systems requiring security. Performs security assessments and evaluations of systems. More senior security positions develop, maintain, and publish corporate information security standards, procedures, and guidelines. Provides technical guidance and training to information "owners," corporate security officers, and IT associates. Designs and implements programs for user awareness, compliance monitoring, and security compliance. Responsible for disaster recovery and business continuation planning. Implements upgrades, repairs, modifications, and replacements of information security devices or software. Ensures appropriate security controls are in existence and in force throughout the enterprise. Works with executive management to determine acceptable levels of risk for the enterprise. Plans and develops security measures to safeguard all network security systems against accidental or unauthorized modification or destruction. Confers with management, application staff, risk assessment staff, auditors, and facilities/security departments to identify and plan security for network management systems (telecommunications and hardware/peripheral installations, network authentication practices). Implements and enforces network security policies. Advises resource owners on formation of appropriate network security policies.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	4+	\$121.25
38	QED-038	Storage System Specialist	5 + years of experience in the field or in a related area, such as network engineering. Designs, plans, and implements storage systems and procedures. Maintains efficient and reliable backup and recovery procedures. Troubleshoots and supports the organizations storage systems. Creates and reviews reports on storage usage. The storage specialist has experience with operating systems and Storage Networks and backup and recovery solutions. The storage specialist can perform the following tasks without assistance: fundamental technical knowledge of high volume storage products, gathers customer requirements and architects a high volume storage solution, identifies and engages correct resources, identifies competitors, has knowledge of the various storage products and vendors, and correctly positions recommendations based on customer requirements. Presents the recommended storage solution to the customer, articulate features and benefits of storage products and maintenance, has a fundamental knowledge of cabling requirements and disk replication. In addition, the Storage Specialist can perform the following tasks with assistance: identify the correct subject matter expert to assist with the technical sales process, identify the correct subject matter expert to provide deep technical knowledge of the product or solution, fundamental knowledge of post-installation support, and conduct a Technical Delivery Assessment	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	5 +	\$106.70
39	QED-039	Systems Administrator Specialist	2+ years of experience in the installation, monitoring, and troubleshooting of specific hardware and software technologies. Performs network (LAN / WAN) and systems administration functions including installation, management, and maintenance of hardware (i.e. servers, bridges, and routers) and software components (i.e. gateways, LAN Manager, and network operating systems), and maintains overall integration of the network. Configures and builds servers. Performs concurrent project management to all aspects of distributed system implementation. Works under the direction of a team leader, project manager, or senior technical person (i.e. network architect).	Specialized training in Server / LAN / WAN Technology	2+	\$135.00
40	QED-040	Systems Analyst	4+ years of programming experience. Identifies and supports changes and enhancements from development through production, recommending and implementing system enhancements. Develops and modifies complex systems and develops subsystems to enhance the overall operational system. Exercises analytical techniques when gathering information from users, defining work problems, designing programs, and developing procedures to resolve the problems. Develops complete specifications to enable programmers to prepare programs. Independently works on routine assignments. Receives guidance from Senior Systems Analyst on complex assignments.	Associates degree in Computer Sciences, Engineering or related field or equivalent work experience.	4+	\$63.00
41	QED-041	Senior Systems Analyst	Identifies and supports changes and enhancements from development through production, recommending and implementing system enhancements. Analyzes software to determine current capabilities and system functions. Develops plans for systems throughout the entire software development life cycle. Analyzes methodology, reviews task proposal requirements, gathers information, analyzes data, prepares project synopses, compares alternatives, prepares specifications for programs, resolves processing problems, coordinates work with programmers, and orients users to new systems. May serve as a lead analyst, providing supervision and technical guidance to others.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	8+	\$72.00
42	QED-042	Systems Developer/Systems Programmer	4+ years of systems programming experience and good troubleshooting skills. Provides daily production support to assigned system(s) to identify production problems and develops solutions. Develops and modifies programs for the operating system. Designs, codes, tests, and implements system related routine modifications. Installs and maintains software on the system. Analyzes and fixes problems associated with the software packages and forwards them to the appropriate vendor for problem resolution. Supports changes and enhancements from development through production, recommending and implementing system enhancements. Monitors system and corrects any efforts or inconsistencies.	Associates degree in Computer Sciences, Engineering or related field or equivalent work experience.	4+	\$117.00

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Item Number	SKU	Job Title	Job Description	Minimum Education / Certification Level	Minimum Years of Experience	NYS Contract Price (Not to Exceed Hourly Rate, Exclusive of Travel)
43	QED-043	Senior Systems Developer/Senior Systems Programmer	8+ years of systems development or systems programming experience. Monitors and provides daily production support to assigned system(s) to identify production problems and resolves systems problems. Leads major complex projects; plans, organizes, directs and develops all aspects of assigned projects, both technical and business. Responsible for systems programming functions dealing with the overall operating system or complex subsystems of the operating system. Develops specifications for complex systems programming activities. Works at the highest technical level on all phases of system programming, controls the operating system, and is able to make decisions on the techniques to be used. Prepares recommendations for system improvement, management, and user consideration. Provides expertise to the technical staff and user community.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	8+	\$135.00
44	QED-044	Technical Writer/Documentation Specialist	4+ years of general writing including 2 years of experience in technical writing in one or more of the following areas: user manuals, documenting systems or programs, training manuals, operational run books, installation guides, methods and procedures manuals, and/or articles about technical subject matter, such as products, systems, facilities, for technical newsletters or magazines. Prepares manuals, user guides, and other technical documentation of systems or programs. Interfaces with users, developers, trainers or trainees to update/revise documentation to reflect the most effective and concise terminology, the best methods and practices, and new software features. Hands-on experience with the application that is being documented.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	4+	\$63.00
45	QED-045	Technical Specialist	8+ years of experience in all aspects of systems development. Individual contributors with little or no management responsibilities who focus on technical analysis and design issues, and who are acknowledged in-house experts. The individual has experience in a particular technical and/or business application, which is beyond the requirements addressed in other areas.	Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience.	8+	\$150.00
46	QED-046	Information Security Analyst EL	Less than 2 years' experience with security policies, processes and standards, selection and deployment of technical controls, security analysis, data access, data manipulation, programming, testing, and implementation, and technical documentation.	NA	0-2	\$95.00
47	QED-047	Information Security Analyst I	Minimum of 4 years' experience with security policies, processes and standards, selection and deployment of technical controls, security analysis, data access, data manipulation, programming, testing, and implementation, and technical documentation.	NA	4+	\$170.00
48	QED-048	Information Security Analyst II	Minimum of 10 years' experience with security policies, processes and standards, selection and deployment of technical controls, security analysis, data access, data manipulation, programming, testing, and implementation, and technical documentation.	NA	10+	\$270.00
49	QED-049	Technology Resilience Systems Expert	Defines, shapes, and architects the overall technical environment with a long-term perspective that delivers Technology Resilience and Recovery capabilities. Primary responsibility for high-level network, systems, and storage infrastructure planning, design and optimization related to the technology resiliency and disaster recovery requirements. The engineer must be able to partner with leading technology providers to envision the future, including network, storage, compute, telecommunications, colocation partners and cloud providers. Able to lead collaboration with Plan and Build teams and coordinates with Office of Information Security around system design and architecture and the implementation of systems and infrastructure to ensure the availability of critical applications in the event of a disruption (physical and/or cyber) to one or more of the primary data centers. Oversees the testing and recovery functions, and develops processes for discovering, tracking, and facilitating the remediation of recovery capability gaps. Provides guidance on and documents technology resiliency and disaster recovery strategy patterns and standards for current and new application or technology implementations	NA	1-5	\$140.00

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Item Number	SKU	Job Title	Job Description	Minimum Education / Certification Level	Minimum Years of Experience	NYS Contract Price (Not to Exceed Hourly Rate, Exclusive of Travel)
50	QED-050	Technology Resilience Systems Expert	<p>Defines, shapes, and architects the overall technical environment with a long-term perspective that delivers Technology Resilience and Recovery capabilities. Primary responsibility for high-level network, systems, and storage infrastructure planning, design and optimization related to the technology resiliency and disaster recovery requirements. The engineer must be able to partner with leading technology providers to envision the future, including network, storage, compute, telecommunications, colocation partners and cloud providers. Able to lead collaboration with Plan and Build teams and coordinates with Office of Information Security around system design and architecture and the implementation of systems and infrastructure to ensure the availability of critical applications in the event of a disruption (physical and/or cyber) to one or more of the primary data centers. Oversees the testing and recovery functions, and develops processes for discovering, tracking, and facilitating the remediation of recovery capability gaps. Provides guidance on and documents technology resiliency and disaster recovery strategy patterns and standards for current and new application or technology implementations</p>	NA	6-10	\$165.00
51	QED-051	Technology Resilience Systems Expert	<p>Defines, shapes, and architects the overall technical environment with a long-term perspective that delivers Technology Resilience and Recovery capabilities. Primary responsibility for high-level network, systems, and storage infrastructure planning, design and optimization related to the technology resiliency and disaster recovery requirements. The engineer must be able to partner with leading technology providers to envision the future, including network, storage, compute, telecommunications, colocation partners and cloud providers. Able to lead collaboration with Plan and Build teams and coordinates with Office of Information Security around system design and architecture and the implementation of systems and infrastructure to ensure the availability of critical applications in the event of a disruption (physical and/or cyber) to one or more of the primary data centers. Oversees the testing and recovery functions, and develops processes for discovering, tracking, and facilitating the remediation of recovery capability gaps. Provides guidance on and documents technology resiliency and disaster recovery strategy patterns and standards for current and new application or technology implementations</p>	NA	11+	\$180.00