

**Appendix D : Pricing Schedule**

**Agreement between the New York State Office of General Services and  
Q.E.D., Inc. dba QED National  
for Project Based Information Technology Consulting Services**

**Contract Number: PB066AA**

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**Sheet #1: Pricing Schedule**

**Authorized Users please note the following:**

A competitive Mini-Bid is required for every transaction under this Centralized Contract.  
(Section 5.1 of the Contract)

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 4.4 and 6.9 of the Contract)

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 4.23 of the Contract)

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 <http://osc.state.ny.us/agencies/travel/travel.htm>. 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 6.10 of the Contract)

**PRICING SCHEDULE**

|                                 |                               |
|---------------------------------|-------------------------------|
| CONTRACTOR NAME:                | Q.E.D., Inc. dba QED National |
| FEDERAL ID:                     | 11-3162897                    |
| NYS VENDOR ID:                  | 1000000681                    |
| CONTRACT NUMBER:                | PB066AA                       |
| DATE PRICELIST APPROVED BY OGS: | 8/12/2016                     |

| 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-003-1 | Level 2: Applications Development and Enterprise Architecture | Perform business / process / systems analysis. Document analysis efforts and resulting design to common business standards. Design, develop, debug, maintain and enhance applications and application programming interfaces (API's). Support users as required in the appropriate use of the organization's custom and third party software. Develop SQL and database logic (stored procedures, triggers, etc). Produce accurate and well-written technical documentation. Perform all work effectively and efficiently, in accordance with Organization standards and procedures, utilizing Organization- standard tools. Keep management appropriately informed of project related activities and events. Document actions taken to resolve all issues within the Organization's service management application and close incident tickets in a timely manner. | Baccalaureate degree in computer or related field or equivalent experience. | 2                           | \$101.25  |
| 2           | QED-003-2 | Level 3: Applications Development and Enterprise Architecture | Perform business / process / systems analysis. Document analysis efforts and resulting design to common business standards. Design, develop, debug, maintain and enhance applications and application programming interfaces (API's). Support users as required in the appropriate use of the organization's custom and third party software. Develop SQL and database logic (stored procedures, triggers, etc). Produce accurate and well-written technical documentation. Perform all work effectively and efficiently, in accordance with Organization standards and procedures, utilizing Organization- standard tools. Keep management appropriately informed of project related activities and events. Document actions taken to resolve all issues within the Organization's service management application and close incident tickets in a timely manner. | Baccalaureate degree in computer or related field or equivalent experience. | 5                           | \$121.50  |
| 3           | QED-003-3 | Level 4: Applications Development and Enterprise Architecture | Perform business / process / systems analysis. Document analysis efforts and resulting design to common business standards. Design, develop, debug, maintain and enhance applications and application programming interfaces (API's). Support users as required in the appropriate use of the organization's custom and third party software. Develop SQL and database logic (stored procedures, triggers, etc). Produce accurate and well-written technical documentation. Perform all work effectively and efficiently, in accordance with Organization standards and procedures, utilizing Organization- standard tools. Keep management appropriately informed of project related activities and events. Document actions taken to resolve all issues within the Organization's service management application and close incident tickets in a timely manner. | Baccalaureate degree in computer or related field or equivalent experience. | 9+                          | \$189.00  |

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| 4 | QED-009-1 | Level 2: Application Specific Functional Support | Conduct user interviews to gather application user requirements for application customizations, reports, changes, to existing functionality and make recommendations accordingly. Provide applications support to users. Resolve, document actions taken on and close work, incident and problem tickets within the Organization's service management application in a timely manner. Write functional specifications for application development or enhancement. Work with applications developers on development and debugging of customizations. Assist with technical support of existing software applications. May assist in the migration to new releases of software solutions (Oracle e-Business Suite, Primavera Contract Manager, Primavera Project Manager). Assist with the development of application test scripts and cases. Organize and run user acceptance testing on applications and interfaces. Facilitate meeting, produce meeting minutes, agenda, create and deliver presentations. | Baccalaureate degree in computer or related field or equivalent experience. | 2  | \$94.50  |
| 5 | QED-009-2 | Level 3: Application Specific Functional Support | Conduct user interviews to gather application user requirements for application customizations, reports, changes, to existing functionality and make recommendations accordingly. Provide applications support to users. Resolve, document actions taken on and close work, incident and problem tickets within the Organization's service management application in a timely manner. Write functional specifications for application development or enhancement. Work with applications developers on development and debugging of customizations. Assist with technical support of existing software applications. May assist in the migration to new releases of software solutions (Oracle e-Business Suite, Primavera Contract Manager, Primavera Project Manager). Assist with the development of application test scripts and cases. Organize and run user acceptance testing on applications and interfaces. Facilitate meeting, produce meeting minutes, agenda, create and deliver presentations. | Baccalaureate degree in computer or related field or equivalent experience. | 5  | \$108.00 |
| 6 | QED-009-3 | Level 4: Application Specific Functional Support | Conduct user interviews to gather application user requirements for application customizations, reports, changes, to existing functionality and make recommendations accordingly. Provide applications support to users. Resolve, document actions taken on and close work, incident and problem tickets within the Organization's service management application in a timely manner. Write functional specifications for application development or enhancement. Work with applications developers on development and debugging of customizations. Assist with technical support of existing software applications. May assist in the migration to new releases of software solutions (Oracle e-Business Suite, Primavera Contract Manager, Primavera Project Manager). Assist with the development of application test scripts and cases. Organize and run user acceptance testing on applications and interfaces. Facilitate meeting, produce meeting minutes, agenda, create and deliver presentations. | Baccalaureate degree in computer or related field or equivalent experience. | 9+ | \$155.25 |

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| 7 | QED-011-1 | Tier 2: MTA Business Process Transformation | <p>Assist in planning, execution and tracking of significant strategic and operational initiatives, associated with organization Operations. Coordinate and lead select operation deep dives to break down work flows and compare and contrast processes across several LOBs concurrently; specifically Procurement. Conduct process reviews, SOP reviews, risk profiles, and SLAs to help identify risk and opportunities across core business processes. Own various program organizational activities such as risk and issue monitoring status reporting and governance coordination. Represent business needs throughout project lifecycle, providing expertise and working knowledge of various business operations processes. Work in fast paced environment, manage multiple tasks, and work well under pressure. Assist in due diligence, and operational reviews of service delivery organizational and formulate recommendations on process improvement initiatives. Prepare &amp; present business cases, findings, benefits / recommendations in various formats and at various levels regarding business units in need of transformation or BPM. Identify LEAN / CI / Six Sigma needs of assigned departments such as Procurement, Tech Services, Warehouse, Office and others, and develop implementation plans with Office of CIO, other BPM department and VP of LOBs. Help coordinate and track those initiatives to strengthen service quality, improve operational productivity and develop a high performing teams. Assist with design and implementation of disciplined score cards in areas needing including productivity, service levels, quality, risk levels, and transaction cost.</p> | College Degree preferred or MBA. LEAN Certification / Six Sigma training or comparable required. | 4 | \$89.00  |
| 8 | QED-011-2 | Tier 3: MTA Business Process Transformation | <p>Assist in planning, execution and tracking of significant strategic and operational initiatives, associated with organization Operations. Coordinate and lead select operation deep dives to break down work flows and compare and contrast processes across several LOBs concurrently; specifically Procurement. Conduct process reviews, SOP reviews, risk profiles, and SLAs to help identify risk and opportunities across core business processes. Own various program organizational activities such as risk and issue monitoring status reporting and governance coordination. Represent business needs throughout project lifecycle, providing expertise and working knowledge of various business operations processes. Work in fast paced environment, manage multiple tasks, and work well under pressure. Assist in due diligence, and operational reviews of service delivery organizational and formulate recommendations on process improvement initiatives. Prepare &amp; present business cases, findings, benefits / recommendations in various formats and at various levels regarding business units in need of transformation or BPM. Identify LEAN / CI / Six Sigma needs of assigned departments such as Procurement, Tech Services, Warehouse, Office and others, and develop implementation plans with Office of CIO, other BPM department and VP of LOBs. Help coordinate and track those initiatives to strengthen service quality, improve operational productivity and develop a high performing teams. Assist with design and implementation of disciplined score cards in areas needing including productivity, service levels, quality, risk levels, and transaction cost.</p> | College Degree preferred or MBA. LEAN Certification / Six Sigma training or comparable required. | 7 | \$105.00 |

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|----|-----------|---|--|--|-----------|----------|
| 9  | QED-011-3 | Tier 4: MTA Business Process Transformation | Assist in planning, execution and tracking of significant strategic and operational initiatives, associated with organization Operations. Coordinate and lead select operation deep dives to break down work flows and compare and contrast processes across several LOBs concurrently; specifically Procurement. Conduct process reviews, SOP reviews, risk profiles, and SLAs to help identify risk and opportunities across core business processes. Own various program organizational activities such as risk and issue monitoring status reporting and governance coordination. Represent business needs throughout project lifecycle, providing expertise and working knowledge of various business operations processes. Work in fast paced environment, manage multiple tasks, and work well under pressure. Assist in due diligence, and operational reviews of service delivery organizational and formulate recommendations on process improvement initiatives. Prepare & present business cases, findings, benefits / recommendations in various formats and at various levels regarding business units in need of transformation or BPM. Identify LEAN / CI / Six Sigma needs of assigned departments such as Procurement, Tech Services, Warehouse, Office and others, and develop implementation plans with Office of CIO, other BPM department and VP of LOBs. Help coordinate and track those initiatives to strengthen service quality, improve operational productivity and develop a high performing teams. Assist with design and implementation of disciplined score cards in areas needing including productivity, service levels, quality, risk levels, and transaction cost. | College Degree preferred or MBA. LEAN Certification / Six Sigma training or comparable required. | 10+       | \$126.00 |
| 10 | QED-012-1 | Tier 1: Computer Support Analyst            | In-depth knowledge of Automatic Job Scheduling software (such as Zeke and BMC). One year's hands-on experience installing and troubleshooting software and hardware in a Windows network environment. One year's hands-on experience installing and troubleshooting software and hardware in a Windows network environment. Ability to quickly learn and support commercially available microcomputer software. Ability to quickly learn and support applications developed by IT and used by our microcomputer skills. Strong oral communication skills. Moving and lifting equipment may be required.  | No Requirement   | 3 or less | \$40.00  |
| 11 | QED-012-2 | Tier 2: Computer Support Analyst            | In-depth knowledge of Automatic Job Scheduling software (such as Zeke and BMC). One year's hands-on experience installing and troubleshooting software and hardware in a Windows network environment. One year's hands-on experience installing and troubleshooting software and hardware in a Windows network environment. Ability to quickly learn and support commercially available microcomputer software. Ability to quickly learn and support applications developed by IT and used by our microcomputer skills. Strong oral communication skills. Moving and lifting equipment may be required.  | No Requirement   | 4         | \$48.00  |
| 12 | QED-012-3 | Tier 3: Computer Support Analyst            | In-depth knowledge of Automatic Job Scheduling software (such as Zeke and BMC). One year's hands-on experience installing and troubleshooting software and hardware in a Windows network environment. One year's hands-on experience installing and troubleshooting software and hardware in a Windows network environment. Ability to quickly learn and support commercially available microcomputer software. Ability to quickly learn and support applications developed by IT and used by our microcomputer skills. Strong oral communication skills. Moving and lifting equipment may be required.  | No Requirement   | 7         | \$60.00  |

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| 13 | QED-012-4 | Tier 4: Computer Support Analyst | In-depth knowledge of Automatic Job Scheduling software (such as Zeke and BMC). One year's hands-on experience installing and troubleshooting software and hardware in a Windows network environment. One year's hands-on experience installing and troubleshooting software and hardware in a Windows network environment. Ability to quickly learn and support commercially available microcomputer software. Ability to quickly learn and support applications developed by IT and used by our microcomputer skills. Strong oral communication skills. Moving and lifting equipment may be required.   | No Requirement | 10+       | \$80.00  |
| 14 | QED-014-1 | Tier 1: Cloud Services           | Responsible for troubleshooting and resolving issues in a timely manner as well as assisting in migration in cloud platforms. Support cloud servers and environments with installation, configuration, patching, network and VLAN configuration, backups, system monitoring and alerts. Management of NAS storage equipment related to cloud environments. Demonstrated experience with VMware products. Hyper V Experience. Linux or network administrator skills a plus. NAS experience with previous role supporting NetApp filers. Knowledge of vMotion and Physical to Virtual (P2V) tools such as Acronis, Vizioncore. Knowledge of networking including setup and troubleshooting VLAN's and trunking. | No Requirement | 3 or less | \$65.00  |
| 15 | QED-014-2 | Tier 2: Cloud Services           | Responsible for troubleshooting and resolving issues in a timely manner as well as assisting in migration in cloud platforms. Support cloud servers and environments with installation, configuration, patching, network and VLAN configuration, backups, system monitoring and alerts. Management of NAS storage equipment related to cloud environments. Demonstrated experience with VMware products. Hyper V Experience. Linux or network administrator skills a plus. NAS experience with previous role supporting NetApp filers. Knowledge of vMotion and Physical to Virtual (P2V) tools such as Acronis, Vizioncore. Knowledge of networking including setup and troubleshooting VLAN's and trunking. | No Requirement | 4         | \$80.00  |
| 16 | QED-014-3 | Tier 3: Cloud Services           | Responsible for troubleshooting and resolving issues in a timely manner as well as assisting in migration in cloud platforms. Support cloud servers and environments with installation, configuration, patching, network and VLAN configuration, backups, system monitoring and alerts. Management of NAS storage equipment related to cloud environments. Demonstrated experience with VMware products. Hyper V Experience. Linux or network administrator skills a plus. NAS experience with previous role supporting NetApp filers. Knowledge of vMotion and Physical to Virtual (P2V) tools such as Acronis, Vizioncore. Knowledge of networking including setup and troubleshooting VLAN's and trunking. | No Requirement | 7         | \$110.00 |
| 17 | QED-014-4 | Tier 4: Cloud Services           | Responsible for troubleshooting and resolving issues in a timely manner as well as assisting in migration in cloud platforms. Support cloud servers and environments with installation, configuration, patching, network and VLAN configuration, backups, system monitoring and alerts. Management of NAS storage equipment related to cloud environments. Demonstrated experience with VMware products. Hyper V Experience. Linux or network administrator skills a plus. NAS experience with previous role supporting NetApp filers. Knowledge of vMotion and Physical to Virtual (P2V) tools such as Acronis, Vizioncore. Knowledge of networking including setup and troubleshooting VLAN's and trunking. | No Requirement | 10+       | \$135.00 |

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| 18 | QED-027-1 | Level 2: Service Desk Services       | Perform Service desk agent functions. Resolve, document actions taken on and close work, incident and problem tickets within the Authority's service management application in a timely manner. Provide hardware, software, network or telephone related assistance to users. Perform account administration for network, telephone and application access. Coordinate and implement moves, adds, changes, and installs of computer / telephone / peripheral equipment. Prepare management reports as directed.  | Baccalaureate degree in computer or related field or equivalent experience   | 2   | \$54.00  |
| 19 | QED-027-2 | Level 3: Service Desk Services       | Perform Service desk agent functions. Resolve, document actions taken on and close work, incident and problem tickets within the Authority's service management application in a timely manner. Provide hardware, software, network or telephone related assistance to users. Perform account administration for network, telephone and application access. Coordinate and implement moves, adds, changes, and installs of computer / telephone / peripheral equipment. Prepare management reports as directed.  | Baccalaureate degree in computer or related field or equivalent experience   | 5   | \$67.50  |
| 20 | QED-027-3 | Level 4: Service Desk Services       | Perform Service desk agent functions. Resolve, document actions taken on and close work, incident and problem tickets within the Authority's service management application in a timely manner. Provide hardware, software, network or telephone related assistance to users. Perform account administration for network, telephone and application access. Coordinate and implement moves, adds, changes, and installs of computer / telephone / peripheral equipment. Prepare management reports as directed.  | Baccalaureate degree in computer or related field or equivalent experience   | 9+  | \$81.00  |
| 21 | QED-033   | Tier 4: Network LAN/WAN/SAN Engineer | Knowledge of 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. Thorough knowledge of layers 1 through 4 and associated equipment V.35, switching equipment, circuit termination equipment. Experience in Storage Area Networks. Expert knowledge of PBX, Voicemail and ACD systems, (Both Digital and IP Based systems, Nortel CS10000E, Nortel Call pilot and Siemens Hicom/HiPath systems preferred). Working knowledge of IVR systems, Auto Attendant Systems and Verizon Centrex system. Strong knowledge of QOS, Session Initiate Protocol, H.323, Dial Plan Integration. Management of Call Restrictions, T1, QSIG, with experience integrating multiple PBX's. Thorough knowledge of channel banks, circuit termination equipment, protocol analysis tools, testing equipment. Experience with CDR Record Management Systems. Experience with implementing and managing Solarwinds Network Management Tools. Experience with SONET, ATM, TCP/IP, DWDM, OSPF, RIP, ARP, VLAN's, COE. Configuring Juniper Layer 2 and Layer 3 switches and routers firewall and Thrustwave NAC. Experience with implementing and maintaining Radius & DNS. Experience administering McAfee Security Product Suite & F5 LTM/GTM. Strong knowledge of NetApp. Superb troubleshooting and analysis, abilities, ability to identify tasks that may benefit from automation and automate them and the ability to identify functions that can be improved by process development and implementation guidelines. | Bachelor's degree in Computer Science or related discipline or three years or more of related full-time, paid experience. Certifications in networking and PBX technology are an advantage | 10+ | \$100.00 |

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|----|------------|--|---|--|-----------|----------|
| 22 | QED-039-01 | Tier 1: Project Management Support     | Experience regarding managing and controlling the personnel and projects required to successfully implement and maintain computer systems. Directs scheduling, technical direction, planning and standard development practices groups. Develops and meets project schedules to ensure timely completion. Other tasks include: perform hardware/software evaluation: analyze and recommend appropriate strategies; perform administrative functions: adhere to an established System Development Methodology (SDM); familiarization with software engineering tools and techniques (Microsoft Project, Primavera, etc). | No Requirement   | 3 or less | \$50.00  |
| 23 | QED-039-02 | Tier 2: Project Management Support     | Experience regarding managing and controlling the personnel and projects required to successfully implement and maintain computer systems. Directs scheduling, technical direction, planning and standard development practices groups. Develops and meets project schedules to ensure timely completion. Other tasks include: perform hardware/software evaluation: analyze and recommend appropriate strategies; perform administrative functions: adhere to an established System Development Methodology (SDM); familiarization with software engineering tools and techniques (Microsoft Project, Primavera, etc). | No Requirement   | 4         | \$65.00  |
| 24 | QED-039-03 | Tier 3: Project Management Support     | Experience regarding managing and controlling the personnel and projects required to successfully implement and maintain computer systems. Directs scheduling, technical direction, planning and standard development practices groups. Develops and meets project schedules to ensure timely completion. Other tasks include: perform hardware/software evaluation: analyze and recommend appropriate strategies; perform administrative functions: adhere to an established System Development Methodology (SDM); familiarization with software engineering tools and techniques (Microsoft Project, Primavera, etc). | No Requirement   | 7         | \$70.00  |
| 25 | QED-039-04 | Tier 4: Project Management Support     | Experience regarding managing and controlling the personnel and projects required to successfully implement and maintain computer systems. Directs scheduling, technical direction, planning and standard development practices groups. Develops and meets project schedules to ensure timely completion. Other tasks include: perform hardware/software evaluation: analyze and recommend appropriate strategies; perform administrative functions: adhere to an established System Development Methodology (SDM); familiarization with software engineering tools and techniques (Microsoft Project, Primavera, etc). | No Requirement   | 10+       | \$75.00  |
| 26 | QED-044-01 | Level 2: Quality Assurance and Testing | Create detailed test plans and test cases for functional and regression testing. Review and provide input on all project level documentation. Create test plans and test cases as they relate to testing project requirements to ensure the overall quality of software delivered. Log, track, and validate resolution of identified defects. Execute manual and automated test cases / scripts. Automate test cases using UFT. Contribute to and assist in implementing improvements in test methods and strategies.   | Baccalaureate degree in computer or related field or equivalent experience | 2         | \$101.25 |
| 27 | QED-044-02 | Level 3: Quality Assurance and Testing | Create detailed test plans and test cases for functional and regression testing. Review and provide input on all project level documentation. Create test plans and test cases as they relate to testing project requirements to ensure the overall quality of software delivered. Log, track, and validate resolution of identified defects. Execute manual and automated test cases / scripts. Automate test cases using UFT. Contribute to and assist in implementing improvements in test methods and strategies.   | Baccalaureate degree in computer or related field or equivalent experience | 5         | \$128.25 |

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|----|------------|--|--|---|-----------|----------|
| 28 | QED-044-03 | Level 4: Quality Assurance and Testing | Create detailed test plans and test cases for functional and regression testing. Review and provide input on all project level documentation. Create test plans and test cases as they relate to testing project requirements to ensure the overall quality of software delivered. Log, track, and validate resolution of identified defects. Execute manual and automated test cases / scripts. Automate test cases using UFT. Contribute to and assist in implementing improvements in test methods and strategies.  | Baccalaureate degree in computer or related field or equivalent experience  | 9+        | \$182.25 |
| 29 | QED-056-01 | Level 2: Data Security                 | Audit applications and network usage and perform vulnerability assessment analysis. Manage information encryption and access rights. Generate reports, analyze and make policy / procedure recommendations on employee security policy and procedures to manage security.  | Baccalaureate degree in computer or related field or equivalent experience. CCNA, CCNE, MCSE accreditation, highly preferred. | 2         | \$101.25 |
| 30 | QED-056-02 | Level 3: Data Security                 | Audit applications and network usage and perform vulnerability assessment analysis. Manage information encryption and access rights. Generate reports, analyze and make policy / procedure recommendations on employee security policy and procedures to manage security.  | Baccalaureate degree in computer or related field or equivalent experience. CCNA, CCNE, MCSE accreditation, highly preferred. | 5         | \$128.25 |
| 31 | QED-056-03 | Level 4: Data Security                 | Audit applications and network usage and perform vulnerability assessment analysis. Manage information encryption and access rights. Generate reports, analyze and make policy / procedure recommendations on employee security policy and procedures to manage security.  | Baccalaureate degree in computer or related field or equivalent experience. CCNA, CCNE, MCSE accreditation, highly preferred. | 9+        | \$162.00 |
| 32 | QED-057-01 | Tier 1: IT Security Operations         | Security monitoring/analytics, infrastructure implementation, enforcement & support activities related to Cyber Security Operation Center (CSOC) including support of perimeter network security devices. Provide info on current security events, reporting, investigation monitoring, & security operations. Work with a security staff for security infrastructure, implementation of perimeter network security devices. Provide tier 1/2 security operation & event support, real-time monitoring / analytics on both perimeter & internal infrastructure, monitor application security events & administer associated security tools such as SIEM, firewall traffic monitoring, IDS/IPS, DLP, proxy server, applications such as LDAP, AD, Email, MDM for the organization network to ensure all critical /non-critical infrastructure & applications are secure. Assist with managing & monitoring of security change process / security events as it relates to critical systems holding PPSI, PCI & HIPPA data to ensure proper security controls are in place. Assist with change control of firewall, proxy, Intrusion Prevention System, Remote Access, VPN, internet access, wireless systems & coordinate changes. Perform log correlation between security, network & application logs. Perform project management, administration & monitoring of data security projects / procedures. Assist CSOC Infrastructure & Enforcement team as per policies / procedures. Provides support to all security technologies managed by CSOC with lifecycle replacement & upgrades for all security infrastructures. | No Requirement  | 3 or less | \$58.00  |

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| 33 | QED-057-02 | Tier 2: IT Security Operations | <p>Security monitoring/analytics, infrastructure implementation, enforcement &amp; support activities related to Cyber Security Operation Center (CSOC) including support of perimeter network security devices. Provide info on current security events, reporting, investigation monitoring, &amp; security operations. Work with a security staff for security infrastructure, implementation of perimeter network security devices. Provide tier 1/2 security operation &amp; event support, real-time monitoring / analytics on both perimeter &amp; internal infrastructure, monitor application security events &amp; administer associated security tools such as SIEM, firewall traffic monitoring, IDS/IPS, DLP, proxy server, applications such as LDAP, AD, Email, MDM for the organization network to ensure all critical /non-critical infrastructure &amp; applications are secure. Assist with managing &amp; monitoring of security change process / security events as it relates to critical systems holding PPSI, PCI &amp; HIPPA data to ensure proper security controls are in place. Assist with change control of firewall, proxy, Intrusion Prevention System, Remote Access, VPN, internet access, wireless systems &amp; coordinate changes. Perform log correlation between security, network &amp; application logs. Perform project management, administration &amp; monitoring of data security projects / procedures. Assist CSOC Infrastructure &amp; Enforcement team as per policies / procedures. Provides support to all security technologies managed by CSOC with lifecycle replacement &amp; upgrades for all security infrastructures.</p> | No Requirement | 4 | \$80.00  |
| 34 | QED-057-03 | Tier 3: IT Security Operations | <p>Security monitoring/analytics, infrastructure implementation, enforcement &amp; support activities related to Cyber Security Operation Center (CSOC) including support of perimeter network security devices. Provide info on current security events, reporting, investigation monitoring, &amp; security operations. Work with a security staff for security infrastructure, implementation of perimeter network security devices. Provide tier 1/2 security operation &amp; event support, real-time monitoring / analytics on both perimeter &amp; internal infrastructure, monitor application security events &amp; administer associated security tools such as SIEM, firewall traffic monitoring, IDS/IPS, DLP, proxy server, applications such as LDAP, AD, Email, MDM for the organization network to ensure all critical /non-critical infrastructure &amp; applications are secure. Assist with managing &amp; monitoring of security change process / security events as it relates to critical systems holding PPSI, PCI &amp; HIPPA data to ensure proper security controls are in place. Assist with change control of firewall, proxy, Intrusion Prevention System, Remote Access, VPN, internet access, wireless systems &amp; coordinate changes. Perform log correlation between security, network &amp; application logs. Perform project management, administration &amp; monitoring of data security projects / procedures. Assist CSOC Infrastructure &amp; Enforcement team as per policies / procedures. Provides support to all security technologies managed by CSOC with lifecycle replacement &amp; upgrades for all security infrastructures.</p> | No Requirement | 7 | \$100.00 |

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| 35 | QED-057-04 | Tier 4: IT Security Operations          | <p>Security monitoring/analytics, infrastructure implementation, enforcement &amp; support activities related to Cyber Security Operation Center (CSOC) including support of perimeter network security devices. Provide info on current security events, reporting, investigation monitoring, &amp; security operations. Work with a security staff for security infrastructure, implementation of perimeter network security devices. Provide tier 1/2 security operation &amp; event support, real-time monitoring / analytics on both perimeter &amp; internal infrastructure, monitor application security events &amp; administer associated security tools such as SIEM, firewall traffic monitoring, IDS/IPS, DLP, proxy server, applications such as LDAP, AD, Email, MDM for the organization network to ensure all critical /non-critical infrastructure &amp; applications are secure. Assist with managing &amp; monitoring of security change process / security events as it relates to critical systems holding PPSI, PCI &amp; HIPPA data to ensure proper security controls are in place. Assist with change control of firewall, proxy, Intrusion Prevention System, Remote Access, VPN, internet access, wireless systems &amp; coordinate changes. Perform log correlation between security, network &amp; application logs. Perform project management, administration &amp; monitoring of data security projects / procedures. Assist CSOC Infrastructure &amp; Enforcement team as per policies / procedures. Provides support to all security technologies managed by CSOC with lifecycle replacement &amp; upgrades for all security infrastructures.</p> | No Requirement | 10+       | \$125.00 |
| 36 | QED-058-01 | Tier 1: IT Security Threat Intelligence | <p>Responsible for forensics and investigation activities related to Cyber Security Operation Center (CSOC). Candidate should possess expert security knowledge of Enterprise Network and Security Infrastructure, Communication and internet security systems, firewalls, intrusion protection systems, remote access VPN, proxy, wireless security, NAC enterprise ID management systems, database, computer systems and security event analysis. Candidate will support various teams of the Cyber Security Operation Center and interface with various IT departments and provide information to IT leadership. Responsibilities also include: management, response and reporting of all computer and network security related incidents; performing forensic investigations on advance threat analysis; statistical analysis; performing simulation and incident testing in a lab environment; correlation of events; trend analysis and comparing against security policy and vulnerability database; monitoring, analyzing and reporting security incidents and day to day security events with a primary focus on highly critical systems holding PPSI, PCI and HIPPA data to make sure proper security controls are in place; notifying and coordinating changes with all departments as a result of security incidents; assisting with forecasting, budgeting and monitoring of data security projects and procedures; providing 24 x 7 x 365 level 2 support relating to all security incidents; assisting in CSOC investigations that require law enforcement agencies; assisting with life cycle replacement and upgrades</p>  | No Requirement | 3 or less | \$75.00  |

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|----|------------|---|---|----------------|---|----------|
| 37 | QED-058-02 | Tier 2: IT Security Threat Intelligence | Responsible for forensics and investigation activities related to Cyber Security Operation Center (CSOC). Candidate should possess expert security knowledge of Enterprise Network and Security Infrastructure, Communication and internet security systems, firewalls, intrusion protection systems, remote access VPN, proxy, wireless security, NAC enterprise ID management systems, database, computer systems and security event analysis. Candidate will support various teams of the Cyber Security Operation Center and interface with various IT departments and provide information to IT leadership. Responsibilities also include: management, response and reporting of all computer and network security related incidents; performing forensic investigations on advance threat analysis; statistical analysis; performing simulation and incident testing in a lab environment; correlation of events; trend analysis and comparing against security policy and vulnerability database; monitoring, analyzing and reporting security incidents and day to day security events with a primary focus on highly critical systems holding PPSI, PCI and HIPPA data to make sure proper security controls are in place; notifying and coordinating changes with all departments as a result of security incidents; assisting with forecasting, budgeting and monitoring of data security projects and procedures; providing 24 x 7 x 365 level 2 support relating to all security incidents; assisting in CSOC investigations that require law enforcement agencies; assisting with life cycle replacement and upgrades | No Requirement | 4 | \$110.00 |
| 38 | QED-058-03 | Tier 3: IT Security Threat Intelligence | Responsible for forensics and investigation activities related to Cyber Security Operation Center (CSOC). Candidate should possess expert security knowledge of Enterprise Network and Security Infrastructure, Communication and internet security systems, firewalls, intrusion protection systems, remote access VPN, proxy, wireless security, NAC enterprise ID management systems, database, computer systems and security event analysis. Candidate will support various teams of the Cyber Security Operation Center and interface with various IT departments and provide information to IT leadership. Responsibilities also include: management, response and reporting of all computer and network security related incidents; performing forensic investigations on advance threat analysis; statistical analysis; performing simulation and incident testing in a lab environment; correlation of events; trend analysis and comparing against security policy and vulnerability database; monitoring, analyzing and reporting security incidents and day to day security events with a primary focus on highly critical systems holding PPSI, PCI and HIPPA data to make sure proper security controls are in place; notifying and coordinating changes with all departments as a result of security incidents; assisting with forecasting, budgeting and monitoring of data security projects and procedures; providing 24 x 7 x 365 level 2 support relating to all security incidents; assisting in CSOC investigations that require law enforcement agencies; assisting with life cycle replacement and upgrades | No Requirement | 7 | \$130.00 |

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| 39 | QED-058-04 | Tier 4: IT Security Threat Intelligence          | Responsible for forensics and investigation activities related to Cyber Security Operation Center (CSOC). Candidate should possess expert security knowledge of Enterprise Network and Security Infrastructure, Communication and internet security systems, firewalls, intrusion protection systems, remote access VPN, proxy, wireless security, NAC enterprise ID management systems, database, computer systems and security event analysis. Candidate will support various teams of the Cyber Security Operation Center and interface with various IT departments and provide information to IT leadership. Responsibilities also include: management, response and reporting of all computer and network security related incidents; performing forensic investigations on advance threat analysis; statistical analysis; performing simulation and incident testing in a lab environment; correlation of events; trend analysis and comparing against security policy and vulnerability database; monitoring, analyzing and reporting security incidents and day to day security events with a primary focus on highly critical systems holding PPSI, PCI and HIPPA data to make sure proper security controls are in place; notifying and coordinating changes with all departments as a result of security incidents; assisting with forecasting, budgeting and monitoring of data security projects and procedures; providing 24 x 7 x 365 level 2 support relating to all security incidents; assisting in CSOC investigations that require law enforcement agencies; assisting with life cycle replacement and upgrades | No Requirement | 10+       | \$165.00 |
| 40 | QED-059-01 | Tier 1: IT Security Architecture and Engineering | Responsible for assisting in the development, implementation and support of security architectures and solutions including security frameworks and roadmaps with in the business and operations units across the organization. Securing enterprise information by determining security requirements, planning, implementing and testing security systems. Determine security requirements by evaluating business strategies and requirements; researching security standards; conducting system security and vulnerability analysis; studying architecture/platform; identifying integration issues; preparing cost estimates. Plan/ upgrade security systems by evaluating technologies; develop requirements for LAN, WAN, VPN, virtual private networks, routers, firewalls, and related security and network devices; design PKI, including use of certification authorities and digital signatures and hardware and software; adhering to industry standards. Implement security systems by specifying intrusion detection methodologies and equipment; directing equipment and software installation and calibration; preparing preventive and reactive measures; creating, transmitting, and maintaining keys; providing support; documentation. Upgrade security systems by monitoring security environment; evaluating/ implementing enhancements. Prepare system security reports by collecting, analyzing, and summarizing data and trends. Track and understand emerging security practices and standards.  | No Requirement | 3 or less | \$95.00  |

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| 41 | QED-059-02 | Tier 2: IT Security Architecture and Engineering | Responsible for assisting in the development, implementation and support of security architectures and solutions including security frameworks and roadmaps with in the business and operations units across the organization. Securing enterprise information by determining security requirements, planning, implementing and testing security systems. Determine security requirements by evaluating business strategies and requirements; researching security standards; conducting system security and vulnerability analysis; studying architecture/platform; identifying integration issues; preparing cost estimates. Plan/ upgrade security systems by evaluating technologies; develop requirements for LAN, WAN, VPN, virtual private networks, routers, firewalls, and related security and network devices; design PKI, including use of certification authorities and digital signatures and hardware and software; adhering to industry standards. Implement security systems by specifying intrusion detection methodologies and equipment; directing equipment and software installation and calibration; preparing preventive and reactive measures; creating, transmitting, and maintaining keys; providing support; documentation. Upgrade security systems by monitoring security environment; evaluating/ implementing enhancements. Prepare system security reports by collecting, analyzing, and summarizing data and trends. Track and understand emerging security practices and standards. | No Requirement | 4 | \$115.00 |
| 42 | QED-059-03 | Tier 3: IT Security Architecture and Engineering | Responsible for assisting in the development, implementation and support of security architectures and solutions including security frameworks and roadmaps with in the business and operations units across the organization. Securing enterprise information by determining security requirements, planning, implementing and testing security systems. Determine security requirements by evaluating business strategies and requirements; researching security standards; conducting system security and vulnerability analysis; studying architecture/platform; identifying integration issues; preparing cost estimates. Plan/ upgrade security systems by evaluating technologies; develop requirements for LAN, WAN, VPN, virtual private networks, routers, firewalls, and related security and network devices; design PKI, including use of certification authorities and digital signatures and hardware and software; adhering to industry standards. Implement security systems by specifying intrusion detection methodologies and equipment; directing equipment and software installation and calibration; preparing preventive and reactive measures; creating, transmitting, and maintaining keys; providing support; documentation. Upgrade security systems by monitoring security environment; evaluating/ implementing enhancements. Prepare system security reports by collecting, analyzing, and summarizing data and trends. Track and understand emerging security practices and standards. | No Requirement | 7 | \$130.00 |

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| 43 | QED-059-04 | Tier 4: IT Security Architecture and Engineering | Responsible for assisting in the development, implementation and support of security architectures and solutions including security frameworks and roadmaps with in the business and operations units across the organization. Securing enterprise information by determining security requirements, planning, implementing and testing security systems. Determine security requirements by evaluating business strategies and requirements; researching security standards; conducting system security and vulnerability analysis; studying architecture/platform; identifying integration issues; preparing cost estimates. Plan/ upgrade security systems by evaluating technologies; develop requirements for LAN, WAN, VPN, virtual private networks, routers, firewalls, and related security and network devices; design PKI, including use of certification authorities and digital signatures and hardware and software; adhering to industry standards. Implement security systems by specifying intrusion detection methodologies and equipment; directing equipment and software installation and calibration; preparing preventive and reactive measures; creating, transmitting, and maintaining keys; providing support; documentation. Upgrade security systems by monitoring security environment; evaluating/ implementing enhancements. Prepare system security reports by collecting, analyzing, and summarizing data and trends. Track and understand emerging security practices and standards.   | No Requirement | 10+       | \$165.00 |
| 44 | QED-060-01 | Tier 1: IT Risk and Compliance                   | Support and maintain an IT Risk and Compliance program and strategy that monitors adherence to IT security requirements and drives remediation of unacceptable risks. It focuses on identifying IT-related directives to which the organization is obliged to comply and ensure compliance with laws, regulations, and organizational policies among other directives. Responsibilities - Implementing, maintaining and supporting the program that is consistent with defined risk strategy, framework and processes. Support compliance engagements. Monitor security violations and follow remediation efforts. Performs penetration testing using automated and manual techniques. Coordinate responses internally, and other stakeholders and react to ad-hoc compliance requests. Assist with the implementation and management of risk assessment technologies for identifying risk and compliance as well as ensuring they are providing accurate and meaningful metrics. Monitor changes in the IT risk and compliance landscape and advise on necessary modifications to security controls and processes. Enforce and revise security policies, standards and procedures and align policies with security requirements. Assist with the development and/or ensure adherence to policy approval and publishing workflow. Research and advise management on relevant laws, regulations, and policies and procedures that may impact security posture. Develop security awareness campaigns that targets end users and other audiences (i.e., PCI/HIPAA managers) | No Requirement | 3 or less | \$80.00  |

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| 45 | QED-060-02 | Tier 2: IT Risk and Compliance | <p>Support and maintain an IT Risk and Compliance program and strategy that monitors adherence to IT security requirements and drives remediation of unacceptable risks. It focuses on identifying IT-related directives to which the organization is obliged to comply and ensure compliance with laws, regulations, and organizational policies among other directives. Responsibilities - Implementing, maintaining and supporting the program that is consistent with defined risk strategy, framework and processes. Support compliance engagements. Monitor security violations and follow remediation efforts. Performs penetration testing using automated and manual techniques. Coordinate responses internally, and other stakeholders and react to ad-hoc compliance requests. Assist with the implementation and management of risk assessment technologies for identifying risk and compliance as well as ensuring they are providing accurate and meaningful metrics. Monitor changes in the IT risk and compliance landscape and advise on necessary modifications to security controls and processes. Enforce and revise security policies, standards and procedures and align policies with security requirements. Assist with the development and/or ensure adherence to policy approval and publishing workflow. Research and advise management on relevant laws, regulations, and policies and procedures that may impact security posture. Develop security awareness campaigns that targets end users and other audiences (i.e., PCI/HIPAA managers)</p> | No Requirement | 4 | \$115.00 |
| 46 | QED-060-03 | Tier 3: IT Risk and Compliance | <p>Support and maintain an IT Risk and Compliance program and strategy that monitors adherence to IT security requirements and drives remediation of unacceptable risks. It focuses on identifying IT-related directives to which the organization is obliged to comply and ensure compliance with laws, regulations, and organizational policies among other directives. Responsibilities - Implementing, maintaining and supporting the program that is consistent with defined risk strategy, framework and processes. Support compliance engagements. Monitor security violations and follow remediation efforts. Performs penetration testing using automated and manual techniques. Coordinate responses internally, and other stakeholders and react to ad-hoc compliance requests. Assist with the implementation and management of risk assessment technologies for identifying risk and compliance as well as ensuring they are providing accurate and meaningful metrics. Monitor changes in the IT risk and compliance landscape and advise on necessary modifications to security controls and processes. Enforce and revise security policies, standards and procedures and align policies with security requirements. Assist with the development and/or ensure adherence to policy approval and publishing workflow. Research and advise management on relevant laws, regulations, and policies and procedures that may impact security posture. Develop security awareness campaigns that targets end users and other audiences (i.e., PCI/HIPAA managers)</p> | No Requirement | 7 | \$130.00 |

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| 47 | QED-060-04 | Tier 4: IT Risk and Compliance  | <p>Support and maintain an IT Risk and Compliance program and strategy that monitors adherence to IT security requirements and drives remediation of unacceptable risks. It focuses on identifying IT-related directives to which the organization is obliged to comply and ensure compliance with laws, regulations, and organizational policies among other directives. Responsibilities - Implementing, maintaining and supporting the program that is consistent with defined risk strategy, framework and processes. Support compliance engagements. Monitor security violations and follow remediation efforts. Performs penetration testing using automated and manual techniques. Coordinate responses internally, and other stakeholders and react to ad-hoc compliance requests. Assist with the implementation and management of risk assessment technologies for identifying risk and compliance as well as ensuring they are providing accurate and meaningful metrics. Monitor changes in the IT risk and compliance landscape and advise on necessary modifications to security controls and processes. Enforce and revise security policies, standards and procedures and align policies with security requirements. Assist with the development and/or ensure adherence to policy approval and publishing workflow. Research and advise management on relevant laws, regulations, and policies and procedures that may impact security posture. Develop security awareness campaigns that targets end users and other audiences (i.e., PCI/HIPAA managers)</p> | No Requirement | 10+       | \$165.00 |
| 48 | QED-061-01 | Tier 1: IT Security ICS / SCADA | <p>Responsible for the SCADA/ICS systems to build a security conscious environment by performing risk assessment and implementing a mitigation plan while imparting the real and active threat from foreign states, terrorist organizations and internal threats. Ensures the framework includes logical and physical information security analysis and coordination of information security effort strategies. This strategy requires development of security, disaster recovery, business continuity, and incident response policies/procedures, standard compliance issues and best practices in the support of the organizations' SCADA/ICS technology infrastructure. Responsibilities: directing the activities of CIRT/CERT while performing ongoing risk assessment and compliance tasks. Assisting the organization with security development, risk assessment and mitigation implementation. Identifying organization's critical infrastructure on a risk-based approach. Providing/updating analysis of the portfolio's current risk based methodologies for security assessments and recommending solutions.</p>  | No Requirement | 3 or less | \$75.00  |
| 49 | QED-061-02 | Tier 2: IT Security ICS / SCADA | <p>Responsible for the SCADA/ICS systems to build a security conscious environment by performing risk assessment and implementing a mitigation plan while imparting the real and active threat from foreign states, terrorist organizations and internal threats. Ensures the framework includes logical and physical information security analysis and coordination of information security effort strategies. This strategy requires development of security, disaster recovery, business continuity, and incident response policies/procedures, standard compliance issues and best practices in the support of the organizations' SCADA/ICS technology infrastructure. Responsibilities: directing the activities of CIRT/CERT while performing ongoing risk assessment and compliance tasks. Assisting the organization with security development, risk assessment and mitigation implementation. Identifying organization's critical infrastructure on a risk-based approach. Providing/updating analysis of the portfolio's current risk based methodologies for security assessments and recommending solutions.</p>  | No Requirement | 4         | \$110.00 |

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| 50 | QED-061-03 | Tier 3: IT Security ICS / SCADA                        | Responsible for the SCADA/ICS systems to build a security conscious environment by performing risk assessment and implementing a mitigation plan while imparting the real and active threat from foreign states, terrorist organizations and internal threats. Ensures the framework includes logical and physical information security analysis and coordination of information security effort strategies. This strategy requires development of security, disaster recovery, business continuity, and incident response policies/procedures, standard compliance issues and best practices in the support of the organizations' SCADA/ICS technology infrastructure. Responsibilities: directing the activities of CIRT/CERT while performing ongoing risk assessment and compliance tasks. Assisting the organization with security development, risk assessment and mitigation implementation. Identifying organization's critical infrastructure on a risk-based approach. Providing/updating analysis of the portfolio's current risk based methodologies for security assessments and recommending solutions. | No Requirement  | 7   | \$130.00 |
| 51 | QED-061-04 | Tier 4: IT Security ICS / SCADA                        | Responsible for the SCADA/ICS systems to build a security conscious environment by performing risk assessment and implementing a mitigation plan while imparting the real and active threat from foreign states, terrorist organizations and internal threats. Ensures the framework includes logical and physical information security analysis and coordination of information security effort strategies. This strategy requires development of security, disaster recovery, business continuity, and incident response policies/procedures, standard compliance issues and best practices in the support of the organizations' SCADA/ICS technology infrastructure. Responsibilities: directing the activities of CIRT/CERT while performing ongoing risk assessment and compliance tasks. Assisting the organization with security development, risk assessment and mitigation implementation. Identifying organization's critical infrastructure on a risk-based approach. Providing/updating analysis of the portfolio's current risk based methodologies for security assessments and recommending solutions. | No Requirement  | 10+ | \$165.00 |
| 52 |            |  | <b>APPROVED 10/19/2015</b>  |   |     |          |
| 53 | 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  |
| 54 | 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  |

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| 55 | QED-005 | 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<br>Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience. | 8+ | \$150.00 |
| 56 | QED-006 | 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 |
| 57 | QED-007 | 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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| 58 | QED-008 | 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  |
| 59 | QED-010 | 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 |
| 60 | QED-013 | 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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| 61 | QED-019 | 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 |
| 62 | QED-020 | 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 |
| 63 | QED-030 | 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  |
| 64 | QED-031 | 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  |

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| 65 | QED-032 | 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  |
| 66 | QED-034 | 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  |
| 67 | QED-040 | 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  |
| 68 | QED-041 | 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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| 69 | QED-042 | Project Management/QA Oversight/Governance      | <p>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).</p> | Bachelor's Degree   | 10+ | \$140.65 |
| 70 | QED-043 | Quality Assurance/Test Engineer/Software Tester | <p>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.</p>  | Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience. | 3+  | \$76.50  |

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| 71 | QED-047 | Security Engineer                | <p>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.</p> | Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience. | 4+  | \$121.25 |
| 72 | QED-048 | Storage System Specialist        | <p>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</p>   | Bachelor's degree in Computer Sciences, Engineering or related field or equivalent work experience. | 5 + | \$106.70 |
| 73 | QED-049 | Systems Administrator Specialist | <p>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).</p>   | Specialized training in Server / LAN / WAN Technology   | 2+  | \$135.00 |

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| 74 | QED-050 | 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  |
| 75 | QED-051 | 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  |
| 76 | QED-052 | 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 |
| 77 | QED-053 | 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 |
| 78 | QED-054 | 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  |
| 79 | QED-055 | 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 |