



GSA Information Technology Services

SIN CR425 – Labor Category Descriptions (Federal Supply Schedule 70) – Updated 9 March 2007

| Title | Level | Functional Responsibilities | Experience and Educational Requirements |
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| Program Manager | I | Program Manager for a task; end-to-end responsibility for the contractor's technical, cost, and schedule performance on a task order; contractor's authorized representative for task-related interactions with the Government. | <p>Education Required: Bachelor or Master of Science degree <u>Discipline:</u> <i>Electrical Engineering, Computer Science, or related technical field</i></p> <p>Required Work Experience: <u>BS Degree:</u> Ten (10) years experience in telecommunications or information technology to include five (5) years managing programs <u>MS Degree:</u> Eight (8) years in IT field to include three (3) years managing programs.</p> |
| Program Manager | II | Program Manager for large, complex task orders; has end-to-end responsibility for the contractor's technical, cost, and schedule performance on a task order; contractor's authorized representative for task-related interactions with the Government. | <p>Education Required: Bachelor or Master of Science degree <u>Discipline:</u> <i>Electrical Engineering, Computer Science, or related technical field</i></p> <p>Required Work Experience: <u>BS Degree:</u> Fifteen (15) years experience in telecommunications or information technology to include ten (10) years managing programs. <u>MS Degree:</u> Thirteen (13) years experience in telecommunications or information technology to include eight (8) years managing programs.</p> |
| Program Manager | III | Program Manager for a significant and complex development. Exhibits an exceptional degree of ingenuity, creativity, and resourcefulness. Performs and assists in requirements definition, vendor/product research, peer reviews, system testing and installation tasks. Establishes budgets, schedule, and priorities based on customer direction. | <p>Education Required: Bachelor or Master of Science degree <u>Discipline:</u> <i>Electrical Engineering, Computer Science, Information Systems, or related technical field</i></p> <p>Required Work Experience: Excellent verbal, written and interpersonal skills. <u>BS Degree:</u> Fifteen (15) years experience in telecommunications, information technology or related engineering discipline to include eight (8) years experience planning, directing, developing, or implementing complex systems in a complex environment. <u>MS Degree:</u> Thirteen (13) years experience in telecommunications, information technology or related engineering discipline to include six (6) years experience planning, directing, developing, or implementing complex systems in a complex environment.</p> |
| Technologist | I | Expert in one or more leading-edge LAN, WAN, or application technologies; assists in the integration of these technologies into large scale network implementations; provides expertise on the engineering processes required to develop, implement, and operate complex systems; provides the analytical expertise to perform systems trade studies and to optimize system performance against customer requirements; brings familiarity with telecommunications and networking standards and industry business. | <p>Education Required: Master of Science or Doctor of Philosophy degree <u>Discipline:</u> <i>Electrical Engineering, Computer Science, Physical Science, or related technical field</i></p> <p>Required Work Experience: <u>MS Degree:</u> Ten (10) years experience in telecommunications or information technology. Current in wide range of networking technologies. <u>PHD:</u> Seven (7) years experience in telecommunications or information technology. Current in wide range of networking technologies.</p> |
| Technologist | II | Expert in one or more leading-edge LAN, WAN, or application technologies; assists in the integration of these technologies into large scale network implementations; provides expertise on the engineering processes required to develop, implement, and operate complex systems; provides the analytical expertise to perform systems | <p>Education Required: Master of Science or Doctor of Philosophy degree <u>Discipline:</u> <i>Electrical Engineering, Computer Science, Physical Science, or related technical field</i></p> <p>Required Work Experience: <u>MS Degree:</u> Fifteen (15) years experience in telecommunications or information technology. Current in wide range of networking technologies.</p> |

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| | | trade studies and to optimize system performance against customer requirements; brings familiarity with telecommunications and networking standards and industry business. | PHD: Twelve (12) years experience in telecommunications or information technology. Current in wide range of networking technologies. |
| Senior Scientist | I | Expert in one or more leading-edge LAN, WAN, or application technologies; provides experience in the solution of difficult, complex technical problems; provides strong analytical skills; experienced in the mathematical modeling of physical processes and systems; provides experience in the development of network performance applications and tools; undertakes major research projects without oversight and direction; strong communications skills - oral and written. | Education Required: Master of Science or Doctor of Philosophy degree Discipline: <i>Engineering, Physical Science, Mathematics, or related technical area</i> Required Work Experience: MS Degree: Ten (10) years professional experience in telecommunications or information technology. Current in wide range of networking technologies. PHD: Seven (7) years professional experience in telecommunications or information technology. Current in wide range of networking technologies. |
| Senior Scientist | II | Expert in one or more leading-edge LAN, WAN, or application technologies; provides experience in the solution of difficult, complex technical problems; provides strong analytical skills; experienced in the mathematical modeling of physical processes and systems; provides experience in the development of network performance applications and tools; undertakes major research projects without oversight and direction; strong communications skills - oral and written. | Education Required: Master of Science degree or Doctor of Philosophy degree Discipline: <i>Electrical Engineering, Computer Science, Physical Science, Mathematics, or related technical area</i> Required Work Experience: MS Degree: Fifteen (15) years experience in telecommunications or information technology. Current in wide range of networking technologies. PHD: Twelve (12) years professional experience in telecommunications or information technology. Current in wide range of networking technologies. |
| Network Architect | I | Collects and analyzes customer requirements; examines customer external and internal interfaces; develops alternative network architectures that satisfy the totality of customer requirements; evaluates the network architectural alternatives for cost, performance, and implementation schedule; performs technical, schedule, and cost risk assessments; requires assistance in structuring work tasks. | Education Required: Associate, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). Discipline: <i>Electrical Engineering, Computer Science, or related technical field</i> Required Work Experience: Education Equivalence: Thirteen (13) years of relevant experience to include two (2) years experience working on network architectures or two (2) years systems engineering experience. AS Degree: Nine (9) years experience in telecommunications or information technology to include two (2) years experience working on network architectures or two (2) years systems engineering experience. BS Degree: Five (5) years experience in telecommunications or information technology to include two (2) years experience working on network architectures or two (2) years systems engineering experience. MS Degree: Three (3) years experience in telecommunications or information technology to include two (2) years experience working on network architectures or two (2) years systems engineering experience. |
| Network Architect | II | Collects and analyzes customer requirements; examines customer external and internal interfaces; develops alternative network architectures that satisfy the totality of customer requirements; evaluates the network architectural alternatives for cost, performance, and implementation schedule; performs technical, schedule, and cost risk assessments; capable of executing most work tasks independently. | Education Required: Associate, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). Discipline: <i>Electrical Engineering, Computer Science, or related technical field</i> Required Work Experience: Education Equivalence: Eighteen (18) years of relevant experience to include five (5) years experience working on network architectures or five (5) years systems engineering experience. AS Degree: Fourteen (14) years experience in telecommunications or information technology to include five (5) years experience working on network architectures or five (5) years systems engineering experience. BS Degree: Ten (10) years experience in telecommunications or information technology to include five (5) years experience working on network architectures or five (5) years systems engineering experience. MS Degree: Eight (8) years experience in telecommunications or information technology to include five (5) years experience working on network architectures or five (5) years systems engineering experience. |

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| Network Architect | III | Collects and analyzes customer requirements; examines customer external and internal interfaces; develops alternative network architectures that satisfy the totality of customer requirements; evaluates the network architectural alternatives for cost, performance, and implementation schedule; performs technical, schedule, and cost risk assessments; provides oversight and direction to staff on major projects. | <p>Education Required: Associate, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). Discipline: <i>Electrical Engineering, Computer Science, or related technical field</i></p> <p>Required Work Experience: Education Equivalence: Twenty-five (25) years of relevant experience to include five (5) years experience working on network architectures or five (5) years systems engineering experience. AS Degree: Twenty-one (21) years experience in telecommunications or information technology to include five (5) years experience working on network architectures or five (5) years systems engineering experience. BS Degree: Seventeen (17) years experience in telecommunications or information technology to include five (5) years experience working on network architectures or five (5) years systems engineering experience. MS Degree: Fifteen (15) years experience in telecommunications or information technology to include five (5) years experience working on network architectures or five (5) years systems engineering experience.</p> |
| Network Engineer | I | Familiarity with some LAN/WAN technologies and vendor equipment; expert in one or more vendor equipment suites; performs site surveys; performs detailed design; installs and configures network equipment; performs acceptance testing; provisions traffic; capable of executing work tasks independently. | <p>Education Required: Associate, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). Discipline: <i>Electrical Engineering, Computer Science, or related technical field</i></p> <p>Required Work Experience: Education Equivalence: Ten (10) years working on network design or implementation. AS Degree: Six (6) years experience working on network design or implementation. BS Degree: Two (2) years experience working on network design or implementation. MS Degree: New graduate – no experience required</p> |
| Network Engineer | II | Familiarity with some LAN/WAN technologies and vendor equipment; expert in one or more vendor equipment suites; performs site surveys; performs detailed design; installs and configures network equipment; performs acceptance testing; provisions traffic; capable of executing work tasks independently. | <p>Education Required: Associate, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). Discipline: <i>Electrical Engineering, Computer Science, or related technical field</i></p> <p>Required Work Experience: Education Equivalence: Thirteen (13) years of relevant technical experience. AS Degree: Nine (9) years of relevant technical experience. BS Degree: Five (5) years of relevant technical experience. MS Degree: Three (3) years of relevant technical experience.</p> |
| Network Engineer | III | Familiarity with a broad range of LAN/WAN technologies and vendor equipment; expert in one or more vendor equipment suites; oversees network design process including site surveys and detailed design; oversees installation and configuration of network equipment; oversees acceptance testing and provisioning of traffic; technical responsibility for major network implementations; provides oversight and direction to staff on major projects. | <p>Education Required: Associate, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). Discipline: <i>Electrical Engineering, Computer Science, or related technical field</i></p> <p>Required Work Experience: Education Equivalence: Twenty (20) years of network design or implementation experience. AS Degree: Sixteen (16) years of network design or implementation experience. BS Degree: Twelve (12) years of network design or implementation experience. MS Degree: Ten (10) years of network design or implementation experience.</p> |
| Network Performance Analyst | I | Familiarity with WAN and LAN operation and equipment; operates applications that collect, archive, and analyze performance data from network devices including routers, switches, high speed and low speed muxes, PBXs, etc; prepares and interprets routine and special purpose analytical reports dealing with various aspects of network or device performance to include circuit availability, circuit utilization, CPU utilization, packet loss data, etc.; requires assistance in structuring of work tasks. | <p>Education Required: Associate, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). Discipline: <i>Electrical Engineering, Computer Science, Mathematics, Statistics or related technical field</i></p> <p>Required Work Experience: Education Equivalence: Ten (10) years of experience collecting and analyzing network performance data. AS Degree: Six (6) years of experience collecting and analyzing network performance data. BS Degree: Two (2) years of experience collecting and analyzing network performance data. MS Degree: New graduate – no experience required</p> |

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| Network Performance Analyst | II | In depth understanding of WAN and LAN operation and equipment; operates applications that collect, archive, and analyze performance data from network devices including routers, switches, high speed and low speed muxes, PBXs, etc; prepares and interprets routine and special purpose analytical reports dealing with various aspects of network or device performance to include circuit availability, circuit utilization, CPU utilization, packet loss data, etc.; capable of independent execution of work tasks. | <p>Education Required: Associate, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). Discipline: <i>Electrical Engineering, Computer Science, Mathematics, Statistics or related technical field</i></p> <p>Required Work Experience: Education Equivalence: Thirteen (13) years of experience collecting and analyzing network performance data. AS Degree: Nine (9) years of experience collecting and analyzing network performance data. BS Degree: Five (5) years of experience collecting and analyzing network performance data MS Degree: Three (3) years of experience collecting and analyzing network performance data.</p> |
| Network Performance Analyst | III | In depth understanding of WAN and LAN operation and equipment; operates applications that collect, archive, and analyze performance data from network devices including routers, switches, high speed and low speed muxes, PBXs, etc; prepares and interprets routine and special purpose analytical reports dealing with various aspects of network or device performance to include circuit availability, circuit utilization, CPU utilization, packet loss data, etc.; provides oversight and direction to staff; establishes daily collection and analysis priorities. | <p>Education Required: Associate, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). Discipline: <i>Electrical Engineering, Computer Science, Mathematics, Statistics or related technical field</i></p> <p>Required Work Experience: Education Equivalence: Eighteen (18) years of experience collecting and analyzing network performance data. AS Degree: Fourteen (14) years of experience collecting and analyzing network performance data. BS Degree: Ten (10) years of experience collecting and analyzing network performance data. MS Degree: Eight (8) years of experience collecting and analyzing network performance data.</p> |
| Network Performance Application Developer | I | Familiarity with WAN and LAN operation and equipment; develops application software for the collection of network performance data; performs database design and administration; develops application software for the analysis and visualization of network performance data; familiarity with SNMP and non-SNMP data collection; writes scripts in Bourne shell, PERL, and Expect; familiarity with Oracle, PUSQL, Pro-C, and ODBC; uses C++ and Java for data visualization; requires assistance in structuring work tasks. | <p>Education Required: Associate, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). Discipline: <i>Electrical Engineering, Computer Science, Mathematics, Statistics or related technical field</i></p> <p>Required Work Experience: Education Equivalence: Ten (10) years of experience developing network performance application software. AS Degree: Six (6) years of experience developing network performance application software. BS Degree: Two (2) years experience developing network performance application software. MS Degree: New graduate – no experience required</p> |
| Network Performance Application Developer | II | In depth understanding of WAN and LAN operation and equipment; develops application software for the collection of network performance data; performs database design and administration; develops application software for the analysis and visualization of network performance data; familiarity with SNMP and non-SNMP data collection; writes scripts in Bourne shell, PERL, and Expect; familiarity with Oracle, PUSQL, Pro-C, and ODBC; uses C++ and Java for data visualization; capable of independent execution of work tasks. | <p>Education Required: Associate, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). Discipline: <i>Electrical Engineering, Computer Science, Mathematics, Statistics or related technical field</i></p> <p>Required Work Experience: Education Equivalence: Thirteen (13) years experience developing network performance application software. AS Degree: Nine (9) years experience developing network performance application software. BS Degree: Five (5) years experience developing network performance application software. MS Degree: Three (3) years experience developing network performance application software.</p> |

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| <p>Network Performance Application Developer</p> | <p>III</p> | <p>In depth understanding of WAN and LAN operation and equipment; expert in developing application software for the collection of network performance data; expert in developing application software for the analysis and visualization of network performance data; familiarity with SNMP and non-SNMP data collection; writes scripts in Bourne shell, PERL, and Expect; familiarity with Oracle, PUSQL, Pro-C, and ODBC; uses C++ and Java for data visualization; provides oversight and direction to staff; establishes software development priorities.</p> | <p>Education Required: Associate, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). <u>Discipline:</u> <i>Electrical Engineering, Computer Science, Mathematics, Statistics or related technical field</i></p> <p>Required Work Experience: <u>Education Equivalence:</u> Eighteen (18) years experience developing network performance application software. <u>AS Degree:</u> Fourteen (14) years experience developing network performance application software. <u>BS Degree:</u> Ten (10) years experience developing network performance application software. <u>MS Degree:</u> Eight (8) years experience developing network performance application software.</p> |
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