



GSA Professional Engineering Services

SIN CR425 – Labor Category Descriptions (Federal Supply Schedule 871) – Updated 9 March 2007

Title	Level	Functional Responsibilities	Experience and Educational Requirements
Program Manager	I	Program Manager for a task order; has end-to-end responsibility for the contractor's technical, cost, and schedule performance on a task order; contractors authorized representative for task-related interactions with the Government.	<p>Education Required: Bachelor or Master of Science degree <u>Discipline:</u> <i>Engineering or related field</i></p> <p>Required Work Experience: <u>BS Degree:</u> Ten (10) years of engineering experience; five (5) years managing programs <u>MS Degree:</u> Eight (8) years in engineering field; 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>Engineering or related field</i></p> <p>Required Work Experience: <u>BS Degree:</u> Fifteen (15) years of engineering experience; ten (10) years managing programs <u>MS Degree:</u> Thirteen (13) years in engineering field; 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>Engineering or related field</i></p> <p>Required Work Experience: Experienced as practicing engineer. Must have management experience: to include planning, directing, developing, or implementing complex systems in a complex environment. Excellent verbal, written and interpersonal skills. <u>BS Degree:</u> Fifteen (15) years in engineering field. Eight (8) years managing programs <u>MS Degree:</u> Thirteen (13) years in engineering field; ten (10) years managing programs</p>
Program Management Specialist	I	Applies basic project control, theories, principles, and concepts; provides support in project requirements management, schedule, and configuration change control; undertakes problems of limited scope; requires supervision; interacts principally with program manager and with other professionals working on similar tasks.	<p>Education Required: Associates Degree or vocational/technical training beyond high school or may substitute equivalent work experience (see below).</p> <p>Required Work Experience: <u>Education Equivalence:</u> Five (5) years of relevant experience combined with training in program controls. <u>AS Degree:</u> One (1) year of relevant experience combined with training in program controls.</p>
Technologist	I	Expert in one or more leading-edge 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 engineering	<p>Education Required: Master of Science or Doctor of Philosophy degree <u>Discipline:</u> <i>Engineering, Physical Science, Mathematics, or similar technical area</i></p> <p>Required Work Experience: <u>MS Degree:</u> Ten (10) years experience <u>PHD:</u> Seven (7) years experience.</p>

		standards and industry practices; undertakes major projects without oversight and direction; strong communication skills – oral and written.	
Technologist	II	Expert in several leading-edge 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 and the extensive experience to perform systems trade studies and to optimize system performance against customer requirements; brings familiarity with engineering standards and industry practices; undertakes major projects without oversight and direction; strong communications skills - oral and written.	Education Required: Master of Science degree or Doctor of Philosophy degree <u>Discipline:</u> <i>Engineering, Physical Science, Mathematics, or similar technical area</i> Required Work Experience: <u>MS Degree:</u> Fifteen (15) years experience <u>PhD:</u> Twelve (12) years experience
Senior Scientist	I	Expert in one or more leading-edge 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 software applications and engineering 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 <u>Discipline:</u> <i>Engineering, Physical Science, Mathematics, or similar technical area</i> Required Work Experience: <u>MS Degree:</u> Ten (10) years professional experience <u>PHD:</u> Seven (7) years professional experience
Senior Scientist	II	Expert in one or more leading-edge 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 software applications and engineering 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 <u>Discipline:</u> <i>Engineering, Physical Science, Mathematics, or similar technical area</i> Required Work Experience: <u>MS Degree:</u> Fifteen (15) years professional experience <u>PhD:</u> Twelve (12) years professional experience
Engineer	I	Applies engineering theories, principles, and concepts with substantial facility; provides solutions to variety of technical problems; requires limited supervision; work is reviewed for appropriateness, accuracy, and thoroughness; interacts principally with supervisor and with other professionals working on similar tasks.	Education Required: Bachelor of Science or Master of Science <u>Discipline:</u> <i>Engineering or technical</i> Required Work Experience: <u>BS Degree:</u> Two (2) years of relevant technical experience <u>MS Degree:</u> New graduate – no experience required.
Engineer	II	Applies with thorough understanding engineering theories, principles, and concepts; brings perspective of a range of engineering disciplines; provides solutions to a wide range of technical problems; develops approach to problem solving independently; work is reviewed for appropriateness in satisfying task objectives; interacts principally with other professionals working on similar tasks and occasionally with the customer.	Education Required: Bachelor or Master of Science degree <u>Discipline:</u> <i>Engineering or technical field</i> Required Work Experience: <u>BS Degree:</u> Five (5) years of relevant technical experience <u>MS Degree:</u> Three (3) years of relevant experience
Engineer	III	Applies extensive expertise in at least one engineering discipline; brings the perspective or expertise of a wide range of engineering disciplines; provides solutions to a wide range of complex and difficult technical problems; solutions are often creative and imaginative; has significant latitude in structuring and executing the tasks; work is reviewed infrequently for appropriateness in satisfying task objectives; interacts frequently with the	Education Required: Bachelor or Master of Science degree <u>Discipline:</u> <i>Engineering or technical field</i> Required Work Experience: <u>BS Degree:</u> Ten (10) years of relevant technical experience <u>MS Degree:</u> Eight (8) years of relevant experience.

		customer.	
Engineer	IV	Applies extensive expertise in at least one engineering discipline; brings expertise of a wide range of engineering disciplines; applies advanced principles, theories, and concepts; capable of developing new principles and concepts; provides solutions to unusually complex and difficult technical problems; solutions are often innovative and ingenious; has nearly complete latitude in structuring and executing the tasks; interacts frequently with the customer; strong communications skills - oral and written.	<p>Education Required: Bachelor or Master of Science degree <u>Discipline:</u> <i>Engineering or technical field</i></p> <p>Required Work Experience: <u>BS Degree:</u> Fifteen (15) years of relevant technical experience <u>MS Degree:</u> Thirteen (13) years of relevant experience.</p>
Engineer	V	Applies extensive expertise in at least one engineering discipline; brings the expertise of a wide range of engineering disciplines; applies highly advanced principles, theories, and concepts; capable of developing highly advanced principles and concepts; solutions to complex and difficult problems are often innovative and ingenious; provides expertise in system architectural definition; provides expertise in business processes; has nearly complete latitude in structuring and executing the tasks; interacts frequently with the customer; strong communications skills - oral and written.	<p>Education Required: Bachelor or Master of Science degree <u>Discipline:</u> <i>Engineering or technical field</i></p> <p>Required Work Experience: <u>BS Degree:</u> Twenty (20) years of relevant technical experience <u>MS Degree:</u> Eighteen (18) years of relevant experience.</p>
Software Engineer	I	Analyze system and software requirements. Design, develop, install, test, modify and document software applications using high level languages such as C++, Visual Basic, etc.; Codes, debugs, documents and maintains programs; Installs, configures, and modifies COTS applications; Plans, conducts and documents software tests and validations.	<p>Education Required: Associates, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). <u>Discipline:</u> <i>Electrical Engineering, Computer Science or technical field</i></p> <p>Required Work Experience: <u>Education Equivalence:</u> Ten (10) years of work experience in a software application and database analysis, design, development environment <u>AS Degree:</u> Six (6) years experience in a software application and database analysis, design, development environment <u>BS Degree:</u> Two (2) years experience in software development environment <u>MS Degree:</u> New graduate – no experience required.</p>
Software Engineer	II	Application design, security control setup, programming, testing documentation and implementation; Design, develop, install, test modify and document software applications using high level languages; Provides technical leadership in application software development, to include developing functional requirements and interface design. Provides solutions to a variety of technical problems of moderate scope and complexity.	<p>Education Required: Associates, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). <u>Discipline:</u> <i>Electrical Engineering, Computer Science or technical field</i></p> <p>Required Work Experience: <u>Education Equivalence:</u> Thirteen (13) years of work experience in a software application and database analysis, design, or development environment. <u>AS Degree:</u> Nine (9) years experience in a software application and database analysis, design, or development environment. <u>BS Degree:</u> Five (5) years experience in a client/server software engineering environment. <u>MS Degree:</u> Three (3) years experience in a client/server software engineering environment.</p>

Software Engineer	III	Broad understanding and application of principles, theories, and concepts; Analyze system and software, requirements, propose design alternatives and make recommendations for technical solutions; Design, develop, and document software applications; write custom code; install, configure, and modify COTS applications; Perform or assist in requirements definition, vendor and product research, system testing and installation. Be able to work independently and within a team environment.	<p>Education Required: Associates, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). <u>Discipline:</u> <i>Electrical Engineering, Computer Science or technical field.</i></p> <p>Required Work Experience: <u>Education Equivalence:</u> Sixteen (16) years of experience in a client/server software engineering environment. At least two (2) years client/server development experience. Good written & verbal skills. <u>AS Degree:</u> Twelve (12) years experience in a software application and database analysis, design, development environment. <u>BS Degree:</u> Eight (8) years experience in a client/server software engineering environment. Must have good written & verbal skills. <u>MS Degree:</u> Six (6) years experience in a client/server software engineering environment. Must have good written & verbal skills.</p>
Software Engineer	IV	Broad understanding and wide application of principles, theories, and concepts; Research, design, and development or application software; Involved in planning system development and deployment; Evaluates interface between hardware and software, operational requirements and characteristics of overall system; Maintains a high knowledge of current information technology.	<p>Education Required: Associates, Bachelor, Master of Science degree or may substitute equivalent work experience (see below). <u>Discipline:</u> <i>Electrical Engineering, Computer Science or technical field.</i></p> <p>Required Work Experience: <u>Education Equivalence:</u> Eighteen (18) years work experience in client/server software engineering, vendor and contractor management. At least two (2) years client/server development experience. Good written & verbal skills. <u>AS Degree:</u> Fourteen (14) years experience in a software application and database analysis, design, development environment. Good written & verbal skills. <u>BS Degree:</u> Ten (10) years experience in a client/server software engineering environment. Good written & verbal skills. <u>MS Degree:</u> Eight (8) years experience in client/server software engineering, vendor and contractor management, and software development. Good written & verbal skills.</p>
Certification Engineer	I	Performs independent valuation of implementations of client-identified standards and specifications to include extensive field audits; Evaluations may extend to system design, fabrication, testing, training, life cycle maintenance, installation and operation, and system decommissioning and retirement; Maintains a high level of knowledge in domain specific commercial and military best practices, applied engineering, and relevant industrial processes; Strong analytical skills; Capable of working independently and with a team.	<p>Education Required: Bachelor or Master of Science degree <u>Discipline:</u> <i>Engineering or related field</i></p> <p>Required Work Experience: Excellent verbal, written, and interpersonal skills required. <u>BS Degree:</u> Ten (10) years of relevant technical & supervisory experience. <u>MS Degree:</u> Eight (8) years of relevant experience.</p>