

Government Labor Estimate for IDIQ Requirement

Job Title	# of people	Hours
Network Technician	1	1,860
Principal Projects Systems Engineer	1	1,860
Senior Engineering Technician	3	5,580
Senior Engineering Technician, Lead	1	1,860
Senior Hardware Technician	5	9,300
Senior Hardware Technician, Lead	1	1,860
Senior R&D Machinist	1	1,860
Senior Simulation Engineer	7	13,020
Senior Simulation Engineer, Lead	2	3,720
Senior Software Engineer	13	24,180
Senior Software Engineer, Lead	1	1,860
Senior System Administrator	1	1,860
Senior System Analyst	1	1,860
Senior System Architect, Manager	1	1,860
Senior Systems Engineer	2	3,720
Senior Visual Database Engineer	2	3,720
Simulation Engineer	2	3,720
Simulation Experiments Manager	1	1,860
Total IDIQ	<u>46</u>	<u>85,560</u>

Offerors are encouraged to use this information to develop their IDIQ cost proposals.

Offeror's may submit their cost proposals with modifications to the Government's Labor Estimate, however, Offerors must include supportable rationale for such modifications.

Standard Labor Category Descriptions

The Offeror will develop its cost estimates using its estimating system. The Offer will map its labor categories to the SLC's using the guidelines provided below. SLC's are intended to broadly group proposed labor. These SLC's do not address all the possible specific skills, or requirements that any one occupation or profession may require. It is the Offeror's responsibility to acquire an understanding of the complexities of the work required to successfully meet the requirements. The Offeror is allowed to include additional labor categories that do not easily map into the SLC's below under the "other" SLC, however, must provide sufficient detailed rationale for including the additional labor categories.

Standard Labor Categories (SLC's) Job Description Guidelines

Function Title	Qualifications	Duties
Network Technician	Associate's Degree in information technology, computer science, or related field or equivalent training and/or experience. Two or more years of experience.	Provides support to distributed PC/networking environment including installation, testing, repair, and troubleshooting for stand-alone PCs, PCs linked to networks, printers, and other computer peripherals. Support responsibilities include software installation, and configurations. Job duties require the technician to install and test personal computers, printers, and other peripherals, configure operating system, load shrink-wrap programs and other application software programs. Troubleshoots computer problems, performs hardware and software diagnostics, coordinates needed repairs, resolves computer system problems, including coordination between users and components of a local area network, and participates in the evaluation of system configuration and software.
Principal Projects Systems Engineer	Bachelor's Degree or equivalent training and/or experience. Five to ten years of experience.	Interacts with customers and company staff to creatively solve experiment problems and issues. Works cooperatively with technical staff and performs a variety of development support functions, project tracking and project reporting. Must be familiar with experiment scope and project objectives as well as the role and function of team members.
Senior Engineering Technician	Journeyman Level with related education or work experience (typically 5 or more years) in mechanical/ aircraft systems. Thorough practical knowledge of mechanical systems.	Responsible for installation, fabrication including welding and sheet metal, operation, troubleshooting, maintenance and repair of mechanical systems. Includes both facility and test related systems, which consist of machinery, test apparatus/models and other mechanical equipment. Assists in the operation of facilities. Works as a member of test, project and/or maintenance teams.

<p>Senior Engineering Technician, Lead</p>	<p>Journeyman Level with related education or work experience (typically 10 or more years) in mechanical/ aircraft systems. Thorough practical knowledge of mechanical systems.</p>	<p>Provides supervisory guidance to engineering technicians. Serves as focal point for work requests of the group; plans, organizes, and coordinates the activities of engineering technicians.</p>
<p>Senior Hardware Technician</p>	<p>Journeyman Level with related education or work experience (typically 5 or more years) in instrumentation or electronic systems. Thorough practical knowledge of instrumentation and/or electronic systems. May require some knowledge/experience of computerized DAS/Control systems.</p>	<p>Responsible for installation, operation, calibration, troubleshooting, maintenance and repair of instrumentation systems. Includes both simulators and test related systems which consist of measurement sensors/control devices, wiring, controllers, transducers, A/D converters, and associated human interface hardware/software. Works as a member of test, project, and/or maintenance teams. May be responsible for analyzing and evaluating test data for quality.</p>
<p>Senior Hardware Technician, Lead</p>	<p>Journeyman Level with related education or work experience (typically 10 or more years) in instrumentation or electronic systems. Thorough practical knowledge of instrumentation and/or electronic systems. May require some knowledge/experience of computerized DAS/Control systems.</p>	<p>Provides supervisory guidance to senior hardware technicians. Serves as focal point for work requests of the group; plans, organizes, and coordinates the activities of senior hardware technicians.</p>
<p>Senior R&D Machinist</p>	<p>Journeyman Level with related education or work experience (typically 10 or more years) in R&D environment.</p>	<p>Fabricates complex and non-routine items that require numerous intricate steps, precise measurements, unusual and compound angles, or nonstandard applications of standard equipment. Performs machine setups using advanced shop mathematics, and geometric and trigonometric formulas. Sets up and operates most types of conventional and/or Computer Numerical Control (CNC) machine tools such as lathes; vertical and horizontal boring mills.</p>
<p>Senior Simulation Engineer</p>	<p>Bachelor's Degree or higher degree in Aeronautics, Aeronautical Engineering, Mechanical Engineering, or related discipline with entry level to 5 or more years of related experience in aerospace testing.</p>	<p>Responsible for simulation experiment management and engineering activities. Integrates and refines requirements from simulation experiment customer. Designs, implements and modifies aircraft math models per customer requirements. Test and verify models to meet required operational performance requirements. In addition, acts as focal point for simulation team and works with other engineering disciplines to facilitate completion of all related requirements.</p>

<p>Senior Simulation Engineer, Lead</p>	<p>Bachelor's Degree or higher degree in Aeronautics, Aeronautical Engineering, Mechanical Engineering, or related discipline with 10 or more years of related experience in aerospace simulation.</p>	<p>Provides supervisory guidance to senior simulation engineers. Serves as focal point for work requests of the group; plans, organizes, and coordinates the activities of senior simulation engineers.</p>
<p>Senior Software Engineer</p>	<p>Bachelor's Degree or equivalent training and/or experience. Five or more years of experience performing highly complex software engineering activities using "state-of-the-art." software engineering concepts and software techniques.</p>	<p>Works independently of any direct supervision and may provide technical direction and guidance to lower-level professional software personnel involved in performing difficult and highly complex software engineering assignments relative to the modification and/or development of software systems. Formulates and develops systems or subsystems architecture, requirements, and design documents. Performs software algorithm development, design, coding, and documentation work of systems to ensure compliance with software engineering standards. Investigates, interprets, and evaluates highly complex system software requirements, and recommends specific modifications and areas requiring further intensive study. Investigates, analyzes, and compares existing systems or subsystems software, and makes specific recommendations to increase their scope and performance to meet specific requirements and ensure achievement of assigned technical activities, as required.</p>
<p>Senior Software Engineer, Lead</p>	<p>Bachelor's Degree or equivalent training and/or experience. Ten or more years of experience performing highly complex software engineering activities using "state-of-the-art." software engineering concepts and software techniques.</p>	<p>Provides supervisory guidance to senior software engineers. Serves as focal point for work requests of the group; plans, organizes, and coordinates the activities of senior software engineers.</p>
<p>Senior System Administrator</p>	<p>Associate Degree or equivalent training and/or experience. Five or more years experience.</p>	<p>Operates computer systems and peripheral equipment, conforming to site specific operating procedures. Monitors and controls a computer a computer by operating the central console or on-line terminal in accordance with established routines. Processes simulation experiment data. Observes continuously the operation of the equipment, reporting any deviations from standard.</p>

Senior System Analyst	Bachelor's Degree or equivalent training and/or experience. Ten years or more of experience.	Acts as subject matter expert in the area of aircraft flight guidance and controls. In addition, can act as a research pilot and project pilot for handling quality simulations.
Senior System Architect, Manager	Bachelor's Degree or equivalent training and/or experience. Ten or more years of experience in systems engineering.	Responsible for the successful completion of all maintenance, upgrades, and modification projects on simulation hardware within SimLabs. Provides supervisory guidance to all senior level technical leads in the development of the simulator hardware projects. Serves as focal point for high level simulation hardware and operational requirements; plans, organizes, and coordinates the activities of senior level technical leads.
Senior Systems Engineer	Bachelor's Degree or equivalent training and/or experience. Five or more years of experience in systems engineering.	Designs, Tests and verify hardware systems to meet required operational performance requirements. In addition, acts as focal point for project team and works with other engineering disciplines to facilitate completion of all related requirements.
Senior Visual Database Engineer	Bachelor's Degree or equivalent training and/or experience. Five or more years of experience in visual database development.	Creates and modifies Out-the-Window visual databases within SimLabs per researchers' requirements.
Simulation Engineer	Bachelor's Degree or higher degree in Aeronautical Engineering, Mechanical Engineering, or related discipline with entry level to two or more years of related experience in aerospace simulation.	Responsible for simulation engineering activities. Designs, implements and modifies aircraft math models per customer requirements. Test and verify models to meet required operational performance requirements. In addition, works with other engineering disciplines to facilitate completion of all related requirements.
Simulation Experiments Manager	Bachelor's Degree or higher degree in Aeronautics, Aeronautical Engineering, Mechanical Engineering, or related discipline with 15 or more years of related experience in aerospace simulation.	Responsible for the successful completion of all simulation experiments within SimLabs. Provides supervisory guidance to all senior level technical leads in the development of the simulation experiments. Serves as focal point for high level simulation requirements; plans, organizes, and coordinates the activities of senior level technical leads.