

Job Description

Software Engineer/Systems Analyst-08052

Position Description

Introduction:

The Johns Hopkins University Applied Physics Laboratory (APL), a national leader in scientific research and development, located midway between Baltimore and Washington, DC is seeking a Software Engineer/Systems Analyst.

Job Summary: Participate in a team environment to develop modeling and simulation (M&S) tools to assess critical Naval system engineering issues associated with Air & Missile Defense (AMD). Utilize these M&S tools to (a) conduct analyses to establish capabilities and limitations, (b) define requirements for systems to overcome these engineering issues, (c) support Navy Fleet and Test and Evaluation (T&E) activities, and (d) conduct analysis to prepare for real world scenarios.

Duties (Listed in order of importance with the estimated amount of time spent at each task):

1. Participate in the development of modeling and simulation tools written in C++. Work to include object oriented design, algorithm design, algorithm implementation, code refactoring, software testing, and associated documentation. (60%)
2. Provide subject matter expertise for military test events and real world scenarios by conducting research, studies, and analysis to provide supporting data and associated recommendations for Navy decision makers. (35%)
3. Develop and deliver formal presentations to sponsors and the engineering community. Effectively communicate proposed concepts/solutions and analysis results. Produce documentation to capture concept definitions, requirements, analysis results, and technical recommendations (5%)

Note: *This job summary and listing of duties is for the purpose of describing the position and its essential functions at time of hire and may change over time.*

Qualifications

Required Qualifications: BS degree in Computer Science, Software Engineering, Computer Engineering or equivalent. Programming proficiency with a programming language. Knowledge and application of Object-Oriented Design (OOD) principles. Some experience working successfully within a team environment either at school or in the work place. Good written and verbal communication skills.

Desired Qualifications: MS degree in Computer Science, Software Engineering, Computer Engineering or equivalent. Six to ten years experience in developing software using the C++ programming language. Familiarity with the Integrated Development Environment (IDE) of Microsoft Visual Studio. Programming experience with MatLab. Proven success working in a multi-disciplinary team environment. Excellent written and verbal communication skills. Working knowledge of the Aegis Combat System. Current Top Secret clearance and/or approved for SCI access.

Special Working Conditions [Travel, working in closed areas, extended hours]: Occasional travel to sponsor, contractor and peer organization facilities for meetings and reviews. Possible occasional support of test events involving extended hours, travel aboard Navy ships, and travel to field site activities. International

travel is not envisioned at this time.

Security: Applicant selected will be subject to a government security clearance investigation and must meet the requirements for access to classified information. Eligibility requirements include U.S. citizenship.

Benefits: APL offers a comprehensive benefits package including a liberal vacation plan, a matching retirement program, significant educational assistance, a scholarship tuition program for staff with dependents, and competitive salaries commensurate with skills and experience. For more information about our organization, please visit our web site at www.jhuapl.edu.

Equal Employment Opportunity: Johns Hopkins University/Applied Physics Laboratory (APL) is an Equal Opportunity/Affirmative Action employer that complies with Title IX of the Education Amendments Acts of 1972, as well as other applicable laws. All qualified applicants will receive consideration for employment without regard to race, color, religion, sexual orientation, gender identity, national origin, disability, or protected Veteran status.

Primary Location *United States-*Maryland-*Laurel

Schedule Full-time

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