Computer Scientist

CERL's **Sustainment Management System (SMS)** guides building and infrastructure investments for large portfolios of government and private facilities. Our team seeks a **software applications specialist** with expertise in writing software application user stories, use cases, automated test scripts, performing manual software testing and documentation. We seek motivated professionals to join our team that works to modernize facility management across the federal government.

Duties:

- Lead and assist in the application of sound software development, software testing, software integration, software maintenance, and data analysis to support the Construction Engineering Research Laboratory's R&D mission and research projects.
- You will perform professional level web-based design and programming, and develop server-based software applications based on DOD best management and security practices.
- Develop and perform computer simulations to solve engineering analysis and design problems, using computational models derived from any of the engineering disciplines.
- You will solve practical computer science and engineering analysis and design problems using physics-based computational models and computer simulations.
- You will integrate new software products and development practices from industry and other government agencies.
- You will analyze, interpret and apply computer science procedures in a variety of situations and recommend effective solutions to senior scientists.
- You will plan, construct and maintain databases for data storage, manipulation, and retrieval as needed for computer science applications.
- You will use programming languages such as C/C++, C#, Java, and Python to develop computer applications.
- For web-based applications, you will use front-end JavaScript/Typescript frameworks and libraries, such as React, Angular, or Vue.
- You will connect front-end code to RESTful APIs.
- You will develop in the Microsoft .NET and .NET Core environment.
- Attend meetings, conferences, briefings, and seminars related to project planning, advanced technologies, and supporting system concepts.
- Communicate effectively and routinely both orally and written with project team members and laboratory leadership.
- Publish technical reports, scholarly papers, and journal articles.
- Assist senior researchers with research & development project execution, cost estimates, work acceptance, development of project management plans, and project management.

Level/Salary Range: DB2 or DB4 (Equivalent to GS 5-11 or GS 12-14).
Level placement depends on the candidate's experience, education, and other qualifications.

View General Schedule (GS) ranges here.