Principal Software Engineer - Space Weather Research

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Company: ERT

Location: Mansfield

Category: computer-and-mathematical

Description

ERT is seeking a Principle Software Engineer to join a team of researchers and developers supporting the Air Force Research Lab (AFRL) in Albuquerque, NM. This is a hybrid role, with approximately 2 in-office days and 3 remote days/week. Additional flexibility may be permitted based on customer needs.

The software engineer's primary responsibility includes researching and developing space weather science phenomenology modeling, prediction, and forecast from science algorithms/prototypes into operational software applications, and advancing current R2O practices in methodology, processes, tools, etc. It requires both hands-on coding as well as technical management of interacting with customers. Design, develop, integrate, and maintain space weather science applications and perform full lifecycle software development activities. Experience or background in space weather science is highly desirable, but not required.

Required Skills

5+ years of experience in general software engineering development in delivering mission-critical system applications, preferably science-based systems supporting NOAA/NASA/DoD.

Ability to use and maintain make-based build tools and SCM-Git for large-scale and distributed software development

Experience in developing with C/Fortran/C++, and Python in Linux environments.

Excellent verbal written communications skills and be highly motivated and adaptable in a dynamic hybrid R&D and production environment.

Experience in developing Cloud-native applications and helping to mature DevSecOps and Platform Engineering practices

Ability to rescue/reverse-engineer troubled scientific code

Preferred

Javascript/HTML/CSS web programming experience desired

Knowledge in conducting and managing system-level testing

Knowledgeable about information assurance practices in compliance with best practices security policies and procedures.

Familiarity with research-2-operations (R2O) methodology

GitOps, and other foundational AWSGovCloud technology

U.S. citizenship is required. Must be able to pass a background investigation to obtain a SECRET clearance to enter the government facility.

Education

BS in Computer Science, Computer Engineering, or related field. MS preferred.

Location

Work is performed at Kirtland AFB in Albuquerque, NM, with the possibility of an on-site or hybrid work schedule. Relocation assistance available.

#LI-Hybrid

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