CIRES/NSIDC Professional Research Assistant

The National Snow and Ice Data Center (NSIDC), http://nsidc.org, part of the Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado at Boulder, serves as a national information and referral center in support of snow and ice research. Our mission is to make fundamental contributions to cryospheric science and excel in managing data and disseminating information in order to advance understanding of the Earth system.

POSITION OVERVIEW

As a member of the Data Operations team, the Professional Research Assistant/Operations Software Engineer is responsible for developing and supporting software for the purposes of ingest, storage, retrieval, manipulation, and application of data and metadata in support of operational processes and cryospheric research. The position will be supporting numerous Data Center projects, as well as providing general support for the Operations team.

BASIC FUNCTIONS

- Design, write, test, and debug code.
- Define, implement, and monitor ingest/archive/distribution processes for polar orbiting satellite data and station data.
- Develop and/or support software required for automation of Operational processes and interoperable data services at the Data Center.
- Implement full life-cycle development. Test and document function, performance and reliability of applications.
- Analyze problems related to system performance and functionality; proposes and implements resolutions.
- Organize and achieve coordinated data system objectives while working with various Data Center departments.
- Author and implement software documentation, as necessary, trains appropriate staff in their use.

REQUIREMENTS

- Bachelor's degree in computer science, math, electrical engineering or a related field.
- Demonstrated professional experience with the entire software development lifecycle: developing, installing, configuring, and testing software for complex data systems.
- Experience working in a Linux/Unix environment.
- Proficiency in multiple programming languages (e.g. Java, IDL, perl, python, R, Matlab, C).
- An understanding of system engineering principles related to gathering customer requirements and transforming these requirements into usable service applications.
- Strong interpersonal, oral and written communication skills.
- Ability to creatively problem solve, productively manage multiple tasks, and thrive in a highly interactive team environment.

DESIRABLE SKILLS

- Familiarity with data management systems and interfaces established to support Earth Science research activities.
- Familiarity with SAN and/or StorNext file systems.
- Familiarity with scientific and geospatial metadata standards.
- Familiarity with web-based technologies such as Python, XML Schemas, DTDs, and Service Registries.
- Knowledge of LDAP, SubVersion, integration, and familiarity with open source platforms and development environments.
- Familiarity with the Agile development process.
- An ongoing passion for emerging technologies, open source, intranets, extranets and the Internet in all its glory.

The position will be filled as a Professional Research Assistant at the University of Colorado at Boulder and will be eligible for employee benefits, including 22 days of vacation per .

You must use www.jobsatcu.com to formally apply for this position. Search for this position using posting **#812604**. Be prepared to upload your cover letter, a current resume that includes the contact information for three references, proof of your degree (Doc 1), and a letter of reference (Doc 2).
Job Code NSIDC-2

The University of Colorado at Boulder is committed to diversity and equality in education and employment. The University of Colorado at Boulder conducts background for all final applicants.