

## **CIRES/NGDC Professional Research Assistant**

The Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado at Boulder conducts collaborative research with NOAA's National Geophysical Data Center (NGDC) on the archive, analysis, processing, and dissemination of data and integrated models describing Earth's geophysical environment. This CIRES position is co-located with NOAA staff of NGDC, David Skaggs Research Center, 325 Broadway, Boulder, Colorado.

NOAA currently operates approximately 100 different geophysical observing systems including land, sea, and space-based platforms. The data and metadata from these systems are produced in hundreds of different formats and distributed to the user community as thousands of different data products in both digital and paper formats. The diversity of these data streams makes data management and integration a tremendously complex problem requiring the pervasive use of automation and cutting-edge geospatial database technology.

### ***DUTIES***

- Work with scientists, data managers, and data providers to understand data processing requirements.
- Provide input to software and data system designs.
- Work with lead developers to implement computer systems that address those requirements using Java, Informix, Oracle, ESRI tools, and other developing technologies.
- Research and understand commercial and open-source tools and approaches that may be used in these systems.
- Develop quality assurance procedures for data integration and delivery system components and tools for monitoring system performance and utilization.
- Contribute to technical interchange meetings at NGDC and NOAA.
- Research and understand national and international standards for geospatial data and their applicability to the problems of data integration and delivery.
- Prepare documentation describing the design and use of computer programs and procedures.
- Contribute technical input to project status reports.

### ***REQUIREMENTS***

- Minimum of a Bachelor's degree, preferably in Computer Science or Geoscience.
- Experience in programming using Java in a team environment with version control and configuration management.
- Experience with Relational Database Management System Applications, JDBC Drivers, and Structured Query Language (SQL).
- Experience with Struts, Hibernate, XML and related technologies, Maven, Jakarta projects, Oracle and/or Informix.

### ***DESIRABLE***

- Proven problem solving ability.
- Excellent documentation and communication skills.
- Capacity to organize work schedule, working on more than one project at once, with minimal supervision.
- Knowledge of software engineering practices and software development life-cycle.
- Familiarity with web environments and services, and Model-View-Controller Architectures
- Familiarity with scientific data format standards (netCDF, HDF) and related tools (THREDDS, OPeNDAP).

The position will be filled as a CIRES Professional Research Assistant through the University of Colorado at Boulder. The university offers an attractive benefits package, including 22 days of paid vacation per year, and offers opportunities for promotion and career advancement. To apply, send via mail, e-mail or fax a letter of interest explaining why you want this position and how your skills meet the job requirements.

Also include a resume, college transcript, and the names and contact information of three references.

e-mail: [jobs@cires.colorado.edu](mailto:jobs@cires.colorado.edu)

**CIRES Human Resources**

**Job Code NGDC-7**

**216 UCB**

**University of Colorado**

**Boulder, CO 80309-0216**

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

