

## **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.

### ***DUTIES***

- Work with data managers to develop ingest tools for geospatial databases.
- Develop views of geospatial datasets for desktop and World Wide Web clients.
- Data massaging: check for consistency, fix, flag, or eliminate bad data, reformat data.
- Develop quality assurance procedures for data sets.
- Assemble data from multiple sources. Integrate, analyze, and understand the data.
- Make data plots, maps, and images for posters, presentations, publications, presenting the data in meaningful ways to help answer research questions.
- Create, modify, and maintain internet map viewers.
- Present work at scientific meetings, in science journals and technical reports including web pages.
- Provide input to grant proposals and statements of work regarding staffing levels, hardware requirements, and software configurations.
- Act as liaison to collaborators, data providers, and other data users.
- Design and build data bases and data base applications including web interfaces.
- Prepare documentation describing the design and use of computer programs and procedures.
- Stay current with latest technologies and software engineering practices. Keep up with current relevant scientific research.

### ***REQUIREMENTS***

- Minimum of a Bachelor's degree, preferably in Computer Science or Geoscience.
- Experience with ESRI tools, particularly ArcIMS, ArcSDE
- Experience in geospatial programming preferably with Java.
- Demonstrated ability to learn and adopt new technologies and practices.
- Experience with Relational Database Management System Applications, JDBC Drivers, and Structured Query Language (SQL).

### ***DESIRABLE***

- Proven problem solving ability.
- Familiarity with Oracle Spatial, Open Geospatial Consortium standards, open source geospatial tools, Javascript, and XML technologies.
- Knowledge of software engineering practices and software development life-cycle.
- Familiarity with web environments and services, and Model-View-Controller Architectures

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-6**

**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.

