

CIRES Professional Research Assistant for NOAA/NGDC

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 collaboration includes geospatial technology for global integrated observing and data management systems, improved integration and modeling of geophysical data, enhanced web discovery and delivery of data and integrated models, and long-term data stewardship. This CIRES position is co-located with NOAA staff of NGDC, David Skaggs Research Center, 325 Broadway, Boulder, Colorado.

NGDC develops and distributes models of the geomagnetic field and maintains archives of geomagnetic data to further the understanding of Earth magnetism and the Sun-Earth environment.

The successful candidate will serve as the data manager for the Center's marine and aeromagnetic trackline data. She/he will focus on obtaining new geomagnetic data by coordinating with external contacts in the geomagnetic community and on quality assessing, reformatting, ingesting and archiving the geomagnetic data that NGDC stewards.

Duties

- Locate and obtain geomagnetic data by communicating with national and international geomagnetic communities
- Utilize numerous software applications to review, evaluate, reformat, ingest and archive geomagnetic data
- Inventory existing analog geomagnetic data holdings and convert to digital formats
- Identify and solve problems with geomagnetic data (e.g., check whether the time and location of a series of marine measurements is consistent with the maximum speed of the ship)
- Collaborate with web developers to provide quality on-line access to geomagnetic data

Requirements

- Bachelor's degree in Geology, Geophysics, Geography or related Earth Science
- Excellent problem-solving skills
- Experience managing very detail-oriented tasks
- Ability to develop solutions to common and specific problems relating to the management and processing of large amounts of earth science data.
- Experience with SQL, UNIX, and Excel
- Experience with programming languages to manipulate data files (e.g. writing code to read input files and write reformatted output files)
- Experience with GIS tools for data manipulation, visualization and evaluation, especially ESRI ArcGIS
- Ability to work as part of a diverse team and work independently with periodic supervision
- Clear oral and written communication skills

Desired Knowledge

- Ability to incorporate existing subroutines into data processing steps for specific functions (e.g., to convert Julian Date to Calendar Date in a data file)
- Experience with programming and scripting languages
- Experience with ArcGIS and Oracle Spatial
- Experience with GIS programming techniques and software

For further information, please contact Lisa Taylor (Lisa.A.Taylor@noaa.gov)

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 and offers opportunities for promotion and career advancement.

To Apply: www.jobsatcu.com/applicants/Central?quickFind=64311

Be prepared to: Complete your EEO information; upload cover letter, resume/vita, letter of recommendation . If you do not have one upload a letter stating who will be sending the letter to Jobs@cires.colorado.edu, siting your name & job number **813046** (Document1), and proof of degree (Document 2) scan diploma or transcripts confirming degree.

Job Code NGDC-1

The University of Colorado is an Equal Opportunity Employer committed to building a diverse workforce. We encourage applications from women, racial and ethnic minorities, individuals with disabilities and veterans. The University of Colorado at Boulder conducts background checks for all final applicants being considered for employment.