

Science Data Engineer – Silver Spring, MD

Position Description

Support information systems development of specialized science data access utilities and their integration into operational systems to enable efficient and open access to the National Oceanographic Data Center's archived oceanographic data streams and metadata. Communities served include scientists, managers, decision-makers, educators and the public. This includes development of tools to automate/streamline processes and performance of the following functions:

- Configure and optimize interoperable data servers and web services
 - Implement OGC Web Mapping and Web Coverage Services)
 - Setup and configure OPeN DAP and OGC servers, including OPeNDAP's Hyrax and the THREDDS Data Server
- Support migration of files from one format to another (HDF, netCDF and others)
- Translate metadata to standard-compliant formats such as FGDC and ISO 19115 using XSLT
- Support the integration of geophysical products in NODC web portals, databases and other data management systems
- Support integration of software and systems and the related databases which support ingest, product generation and access of data.
- Support the implementation of processes, methods, tools, and systems to improve both product generation/archival/access and the completeness and quality of the data and of the metadata.

Required Skills

4 years in software analysis, software engineering, code development, and integration supporting geophysical research, and the science data systems for product generation, archiving and accessing. Experience working with geophysical data. Knowledge of and experience implementing OGC Web Mapping and Web Coverage Services and setup and configuration of OPeN DAP and OGC servers, including OPeNDAP's Hyrax and the THREDDS Data Server. Experience with file format migrations (HDF, netCDF, and others) and metadata extractions to/from FGDC and ISO 19115 compliant standards using XSLT. Computer skills must include Linux shell scripting, PERL, python, relational database queries (SQL) and management. Climate and Forecast (CF) file-level metadata attribute conventions familiarity useful. Knowledge of other current mechanisms for finding and serving geophysical data and associated metadata such as: Search and Retrieval via URL (SRU), Catalog Services for the Web (CSW), and/or Sensor Observation Service (SOS).

Education

MS or higher in Physical Sciences (Atmospheric Sciences, Oceanography, Remote Sensing), Computer Science, Physics, Mathematics, Engineering, or related discipline.

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