

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ROTATIONAL ASSIGNMENT PROGRAM OPPORTUNITY

Occupational Category:

Managerial____ Technical ___X___ Analytical _____

Administrative _____ Clerical/Support _____ Other_____

Level of Responsibility: GS-14, Pay Band ZP-IV

Duration: 3 months _____ 6 months ___X___ Other_____

Timeframe: 1st quarter __ 2nd quarter _____ 3rd quarter ___X___ 4th quarter __

Title of Assignment: Business Enterprise Architect

Assignment Objective: Continue to develop and enhance the NESDIS Enterprise Architecture based upon the initial work done during FY 2003.

Description of Tasks:

Using an architecture modeling tool called Metis, continue to capture data and build and enhance the NESDIS Enterprise Architecture. Specific tasks would include learning the Metis software tool, interviewing personnel across NOAA to capture data on strategic direction, business operations, observing systems, software applications, IT infrastructure, and transition projects. Work with the CIO to put together documents and presentations that capture the architecture.

Special Requirements and Selection Criteria:

Familiarity with Metis software tool is preferred but not required

Familiarity with enterprise IT architecture work

Familiarity with IT project planning

Project management skills

Computer science background

Selection may be limited to the local commuting area dependent on the availability of funding.

NOAA Line/Staff Office: National Environmental Satellite, Data, and Information Service (NESDIS), Office of the Chief Information Officer (Silver Spring, MD)

Point of Contact: David Vercelli, (301) 713-9223x240

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Occupational Category:

Managerial _____ Technical X Analytical _____

Administrative _____ Clerical/Support _____

Level of Responsibility: ZT-IV or GS-11/12

Duration: 3 months _____ 6 months X Other _____

Timeframe: 1st quarter _____ 2nd quarter _____ 3rd quarter X 4th quarter _____

Title of Assignment: Establishing Procedures and Protocols for Imaging pre-19th Century Climate Data Not Currently Held in NOAA's Archives

Assignment Objective:

Produce a report that presents suggested procedures and protocols for imaging pre-19th century climate data as currently held by NARA, state archives, public libraries, and private collections.

Description of Tasks:

The Climate Database Modernization Program is in need of digitized pre-19th century climate data that were recorded on a variety of journals, diaries, and other pre-weather service observing records. The task is to develop methods of obtaining these data as digital images so that they may be keyed for inclusion in the nation's climate databases. Contacts will have to be made with the national archives and representative state and local archives, state and regional climatologists, and academia to document the legalities and challenges facing this task.

Special Requirements and Selection Criteria:

Knowledge of and experience with data management practices, experience in dealing with a variety of federal and non-federal archivists, librarians, and climatologists. Knowledge of project management and excellent communication skills. Selection may be limited to local commuting area dependent on the availability of funding.

NOAA Line/Staff Office:

National Environmental Satellite, Data, and Information Service (NESDIS) /
National Climatic Data Center (NCDC) (Asheville, NC)

Point of Contact: Thomas R. Karl, (828) 271-4675

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Occupational Category:

Managerial____ Technical Analytical____

Administrative ____ Clerical/Support ____ Other____

Level of Responsibility: GS-12/13/14 or Pay Band ZP/ZT-III/IV

Duration: 3 months 6 months____ Other____

Timeframe:

1st quarter__ 2nd quarter ____ 3rd quarter__ 4th quarter

Title of Assignment: Geospatial Data Management and Integration

Assignment Objective:

To integrate multi-line office datasets using geospatial database tools and techniques.

Description of Tasks:

The team will develop and demonstrate a Global Environmental Observation and Data Management System architecture using standards-based commercial tools. The architecture will integrate metadata that is compliant with federal and international standards, data from all NOAA Line Offices, and will integrate with other local, regional, national and international geospatial data portals.

Special Requirements and Selection Criteria:

This task will involve a team including representatives from all NOAA Line Offices. We will be demonstrating a distributed architecture that relies heavily on geospatial databases and other modern geographic information system tools. People must have demonstrated capabilities in using SQL databases, internet mapping tools (i.e. ArcIMS, Open GIS Consortium Map / Coverage Servers), and other web development tools (i.e. Java, Java Server Pages, XML). They must also have a track record of learning and applying new technologies to NOAA datasets. This position may be limited to local commuting area or of shorter duration depending on the availability of funding.

NOAA Line/Staff Office: NESDIS, National Geophysical Data Center (NGDC), (Boulder, CO)

Point of Contact: Ted Habermann, NGDC (Ted.Habermann@noaa.gov)

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ROTATIONAL ASSIGNMENT PROGRAM OPPORTUNITY

Occupational Category:

Managerial ____ Technical Analytical ____

Administrative ____ Clerical/Support ____ Other ____

Level of Responsibility: GS- 11/12/13/14 or Pay Band: ZP-III/IV

Duration: 3 Months 6 Months ____ Other ____

Timeframe: 1st Quarter__ 2nd Quarter 3rd Quarter__ 4th Quarter

Assignment Title: Near real time access to satellite observations of nighttime squid fishing activity

Assignment Objective: To participate in the development and testing of an online service providing near real time access to satellite observations of heavily lit squid fishing boats in one or more region of the world.

Description of Tasks: The U.S. Air Force Defense Meteorological Satellite Program (DMSP) Operational Linescan System (OLS) has a unique capability to detect lights present at the earth's surface. The OLS has a demonstrated capability to detect nocturnal squid fishing activity, where squid are aggregated using banks of lights. NGDC has built a capability to ingest, geolocate and post nighttime OLS data of specified regions using the Satellite Archive Browse and Retrieval (SABR) system (www.sabr.ngdc.noaa.gov). This is currently being done for a set of gas flares in Nigeria and fires in Africa. In this project, the rotational staff member will work with NGDC staff to set up a similar system for one or more squid fishing areas of interest to NOAA. The rotational staff member will introduce fisheries scientist to the near real time system to gather their feedback regarding ease of use and to identify additional features that would make the data of greater value. The rotational staff member would prepare a report defining the additional features or functionalities which would enhance the value of the online service.

Special Requirements and Selection Criteria: Technical capability in the application of geospatial data to address fishery issues. Selection may be limited to the local commuting area dependent on the availability of funding.

NOAA Line or Staff Office: NESDIS, National Geophysical Data Center, (NGDC) (Boulder, CO)

Point of Contact: Dr. Christopher D. Elvidge, National Geophysical Data Center
Email: chris.elvidge@noaa.gov

NESDIS-11-NGDC

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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Occupational Category:

Managerial _____ Technical Analytical _____

Administrative _____ Clerical/Support _____ Other _____

Level of Responsibility: GS 11/12 or Pay Band ZP-III

Duration: 3 months _____ 6 months Other _____

Timeframe: 1st quarter _____ 2nd quarter 3rd quarter 4th quarter _____

Title of Assignment: Prototype Side-Scan Sonar Access System

Assignment Objective:

Develop and prototype an Automated Useful Access System for National Ocean Service (NOS) shallow-water, digital side-scan sonar data being collected by NOS and archived at the National Geophysical Data Center (NGDC), Boulder, CO.

Description of Tasks:

1. Become acquainted with the characteristics, uses, and nature of the side-scan data.
2. Design and outline a useful access system, including browse imagery, indexing, geolocation, and a user-friendly interface.
3. Investigate existing browse and retrieval systems throughout NOAA for both suitability and adaptability to the current task.
4. Build a prototype system; test it with existing data holdings; and demonstrate a responsive, flexible, and useful access system by which users of side-scan sonar can obtain data with a minimum of NGDC support. This may involve adaptation and modification of existing systems, co-development with other groups, selection of COTS solutions, or custom code.

Special Requirements and Selection Criteria:

1. Familiarity with data management systems, world-wide-web interfaces, large-volume data sets, and image processing software.
2. Programming and program-design skills.
3. Selection may be limited to local commuting area dependent on the availability of funding.

NOAA Line/Staff Office:

NESDIS, National Geophysical Data Center (NGDC), (Boulder, CO)

Point of Contact: George F. Sharman, NGDC.

Email:George.F.Sharman@noaa.gov

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ROTATIONAL ASSIGNMENT PROGRAM OPPORTUNITY**

Occupational Category:

Managerial____ Technical

Administrative____ Clerical/Support____ Other____

Level of Responsibility: GS 9-11 or Pay Band Level II/III

Duration: 3 Months 6 Months____ Other _____

Timeframe: 1st quarter____ 2nd quarter____ 3rd quarter 4th quarter____

Title of Assignment: Coastal Gateway Development & Integration

Assignment Objective:

Construct data gateways and link them to interactive web search tools and associated metadata records. Expand the number of coastal gateways, thereby increasing the inventory of operational data sources resulting in the building a national network of coastal information providers.

Description of Tasks:

The task is to build and install gateways that link the data provider to the NCDDC IT Architecture. Part of the task will include connecting the gateway to the NCDDC metadata software tools enabling efficient web based data searches. Contacts will include federal, state, local, and university coastal programs, nationwide. Once the gateways are in place, the national coastal data access and integration will be greatly increased and enhanced.

Special Requirements and Selection Criteria:

Working knowledge of software implementation, C++, Java and CORBA. Selection may be limited to local commuting area dependent on the availability of funding.

NOAA Line/Staff Office:

NESDIS/ National Oceanographic Data Center (NODC)/ National Coastal Data Development Center (NCDDC), (Stennis Space Center, MS)

Point of Contact:

Joe Stinus, (228) 688-3450