

**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ROTATIONAL ASSIGNMENT PROGRAM OPPORTUNITY**

Occupational Category:

Managerial____ Technical____ Analytical X

Administrative ____ Clerical/Support ____ Other:

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

Duration: 3 months ____ 6 months X Other__

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

Title of Assignment: NCDC Center-wide Data Inventory System Requirements

Assignment Objective:

Analyze and recommend the best approach for developing a NCDC Center-wide data inventory system.

Description of Tasks:

NCDC has several legacy data inventory systems. A single Center-wide inventory system is desired. A requirements analysis is required.

Special Requirements and Selection Criteria:

Knowledge of and experience with data management practices, systems development, and project management. 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) 271-4476

NESDIS-04-NGDC

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ROTATIONAL ASSIGNMENT PROGRAM OPPORTUNITY

Occupational Category:

Managerial___ Technical___ Analytical X

Administrative: ___ Clerical/Support: ___ Other: ___

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

Duration: 3 months___ 6 months X Other___

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

Title of Assignment: Geophysical Applications of NOAA's Continuously Operating Reference Station (CORS) GPS Data

Assignment Objective: Identify and explore the application of CORS GPS data to current challenges in earth sciences. GPS data are useful for observing and modeling the Earth system, from surface transformations to the near-Earth space environment. Possible areas of exploration include the ionosphere, plate tectonics, mapping, meteorology, and surface deformation and implications for environmental change including changes in the length of day. The rotation will result in the development of a new state-of-the-environment science product in one of the study areas.

Description of Tasks: Duties would include using NOAA's National CORS archive, perhaps in combination with other geophysical data available from NGDC or elsewhere, to develop a new scientific product describing some aspect of the Earth or near-Earth environment. Candidate will work with the CORS GPS data in receiver format and with the archive (RINEX) format, expanding knowledge of the data quality. NOAA's National Geophysical Data Center works with the National Ocean Service / National Geodetic Survey to collect and archive CORS data. NGDC is co-located with NOAA's NWS' Boulder Forecast Office and Space Environment Center and OAR's FSL, ETL, CMDL, CDC and ARL.

Special Requirements and Selection Criteria: The selected individual must have a background in geophysics with special knowledge of at least one of the areas of study. Graduate level studies in one of the scientific disciplines mentioned above and a familiarity with UNIX, Linux, and windows operating systems, large-volume data management, and mapping/ graphing software is desirable. 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: Susan J. McLean, NGDC, (303) 497-647

NESDIS-05-NGDC

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ROTATIONAL ASSIGNMENT PROGRAM OPPORTUNITY

Occupational Category:

Managerial____ Technical X Analytical X

Administrative _____ Clerical/Support _____ Other____

Level of Responsibility: GS 13 or Pay Band ZP-IV

Duration: 3 months _____ 6 months X Other____

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

Title of Assignment: Space Weather Events Affecting Technology

Assignment Objective:

To construct a database of space weather events from civilian and military sources listing the technology affected and the state of the space environment. This database will be used to establish a set of requirements for a space climatology.

“Space weather refers to conditions on the sun and in the solar wind, magnetosphere, ionosphere and thermosphere that can influence the performance and reliability of space-borne and ground-based technological systems and can endanger human life or health. Adverse conditions in the space environment can cause disruption of satellite operations, communications, navigation and electric power distribution grids leading to a variety of socioeconomic losses.” (National Space Weather Program)

Description of Tasks:

The first task will be to update NGDC’s database of Satellite Anomalies, some of which result from space weather events and others from engineering problems. The initial database, built in the early 1980’s, needs to be updated with input from the operators of satellite systems like NESDIS, NASA, the telecommunications industry and the military. Also, the basic terminology used to classify spacecraft anomaly events has evolved considerably since the original database was designed and existing entries must be systematically updated to reflect those changes.

The second task will be to use the data in NGDC’s Space Physics Interactive Data Resource to describe the state of the space environment during the anomaly.

The third task will expand the scope of the database to include other technological systems affected by space weather events like electrical power grids.

Special Requirements and Selection Criteria:

1. The person will be asked to work with staff at the National Geophysical Data Center, Space Environment Center, Air Force Directorate of Weather, Air Force Space Command, Office of the Federal Coordinator for Meteorological Services, Space Architects (?) Office, Aerospace Corporation, Insurance Companies and Satellite Operators.
2. A "TS" security clearance would be useful.
3. Selection may be limited to local commuting area dependent on the availability of funding.

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

Point of Contact: Herb Kroehl (303-497-6323) and Dan Wilkinson (303-497-6137)

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ROTATIONAL ASSIGNMENT PROGRAM OPPORTUNITY

Occupational Category:

Managerial Technical Analytical

Level of Responsibility: GS 13/14/15 or Pay Band ZP-IV and V

Duration: 3 months 6 months Other

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

Title of Assignment: NOAA/NESDIS Liaison for Environmental Observation Requirements

Assignment Objective: To coordinate the collection, incorporation and documentation of environmental observation requirements from numerous US federal agencies into the NOAA Observing System Architecture (NOSA) tool - CasaNOSA

Description of Tasks:

1. coordinate with the USDA, EPA, DOI, DoD and other designated federal agencies to accomplish collection of required environmental observations, independent of observing system platform to accomplish their missions
2. where needed, coordinate between agencies and scientists to translate generic agency needs into specific observational parameters
3. coordinate incorporation of all requirements into the NOSA tool for evaluation against all observing system capabilities
4. develop first drafts of each stated agency's Mission Observational Requirements List which documents each requirements, definition, application and benefit

Special Requirements and Selection Criteria: Applicant should have an overall understanding of atmosphere, land, ocean and space observation requirements needed to observe, monitor and understand the processes related to atmospheric phenomena, ocean and land phenomena, and climate, hazards and space weather applications.

Applicant should be comfortable with interagency interaction and require a minimum of supervision to accomplish the stated tasks.

Selection will be limited to the local (D.C.) commuting area.

NOAA Line/Staff Office: NESDIS/Office of Systems Development (OSD), (Silver Spring, MD)

Point of Contact: Pamela Taylor (301-713-2789 x155)