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Job Description

****This position requires deployment to Antarctica and has a contract length of over one year from approximately October 25th, 2014 through November 12th, 2015.****

In accordance with overall technical direction, guidance, and protocols provided by grantees, subcontractors, and the National Science Foundation, the Research Associate position:

- Maintains, trouble shoots, and repairs a variety of equipment used in the long-term monitoring of physical phenomena including UV spectroradiometers, GPS receivers, VLF radio receivers, neutron and radio-nuclide detectors, seismometers, all sky imagers, lasers, riometers, magnetometers, photometers, interferometers, and other optical instruments.
- Supports researchers by ensuring timely problem resolution, minimizing data collection interruptions, and notifying grantees of outages, issues, and maintenance schedules.
- Collects, archives, and transmits data and status reports to project researchers.
- Maintains appropriate project logbooks, and prepares a variety of reports. Develops detailed procedures and documentation for performing routine system maintenance. Maintains documents and email records. Updates standard operating procedures and guidelines.
- Uses digital and analog electronic, electro-optical, and electro-mechanical troubleshooting skills to diagnose and repair instruments, equipment, hardware failures and PC components.
- Administers, operates, and maintains the computer-based acquisition systems needed to control various projects, across multiple platforms.
- Coordinates with other departments on computer configurations and networking topology issues such as firewall access, IP addresses, and host naming.
- Receives and inventories capital equipment, instruments, materials, and supplies. Maintains accurate inventory of spare parts for equipment and instruments, and prepares resupply messages. Packages capital equipment, instruments, materials, and supplies for recalibration, repair, or replacement. Assists with life-cycle management and informs researchers/staff on replacement timelines.
- Occasionally conducts briefings on research and tours of facilities for distinguished visitors.
- Performs other duties as required.

SITE-SPECIFIC DUTIES AND RESPONSIBILITIES FOR SOUTH POLE:

There are two similar Research Associate positions and the following duties cover both.

- Maintains, operates, and repairs cryogenic dewars, associated equipment and compressed gas cylinders. Manages LN2 and GN2 supply for the station.
- Responsible for all aurora-related experiments and cryogen needs. Troubleshoots auroral cameras and associated electronics. Experience with CCDs in optical or IR astronomy is also preferred but not required.
- Assisting all science groups and the station in general with electrical component troubleshooting.
- Manual labor as needed including excavating buried experiments and station maintenance.
- Will be assigned to an Emergency Response Team (ERT). Examples are the Fire Brigade and First Aid teams which require specialized training that is provided.
- Assists grantees with field work during the summer season. May deploy into the deep field for several days. Will require cold weather survival training which is provided.
- South Pole Community duties including washing dishes and cleaning common areas.

Basic Qualifications

Bachelor's degree or higher in Astronomy, Astrophysics, Physics, or other engineering discipline is required.

Experience in laboratory or observatory technical work is required. Laboratory or observatory technical work should include operational experience utilizing experimental physical, optical, or atmospheric science equipment.

Experience in the use of multiple commercial software packages and DOS and Windows operating systems is required. Windows XP administration and knowledge of Windows 95, 98, 2000, NT and XP required. Fluency with networking topics and file transfer tools required. Knowledge of MS-Excel and Word required. Administrator ability for Macintosh and Linux/Unix platforms required. Unix system administration ability required for South Pole Station.

General electronic troubleshooting ability required.

Excellent written and verbal communication abilities required. Must be organized, able to multi-task, and work without direct supervision.

Deployment to Antarctica is required for this position. The individual in the position must successfully complete the physical and dental examinations as required by the NSF for deploying to Antarctica. Failure to meet these requirements may result in withdrawal of employment offer or other employment action.

Desired skills

Master's degree or higher in Astronomy, Astrophysics, Physics, or other engineering discipline is preferred. A background in an academic research environment providing direct support to science projects is preferred.

Lockheed Martin is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, age, protected veteran status, or disability status.

Job Location(s): Centennial Colorado

Security Clearance : None

LM Careers Business Unit : ESS0997 IS&GS-CIVIL (S8200)

Program : NSF-ASC

Job Class : Scientist

Job Category : Experienced Professional

City : Centennial

State : CO