DATA ENGINEER

contract position

Status: Fixed-Term
Compensation Type: Contracted Day Rate
Benefit Eligible: No
Reports to: Director, Data Engineering
Location: Primarily aboard E/V Nautilus
Contact: careers@oet.org

The Ocean Exploration Trust is seeking an experienced **Data Engineering Generalist** to support annual sea-going expeditions aboard Exploration Vessel *Nautilus* for approximately 1.5 to 3 months per year throughout a five to seven-month annual field program.

**Ocean Exploration Trust**
The Ocean Exploration Trust (OET) is a 501(c)3 founded in 2008 to *explore* the ocean, seeking out new discoveries in the fields of geology, biology, maritime history, archaeology, and chemistry while pushing the boundaries of science, technology, engineering, and mathematics *education* and technological *innovation*. The Nautilus Exploration Program centers on scientific ocean exploration launched from aboard the 64-meter Exploration Vessel *Nautilus*, supported by state-of-the-art robotic and telepresence technologies on board and ashore that are used to advance ocean exploration. For more information, visit [www.nautiluslive.org](http://www.nautiluslive.org) and [www.oet.org](http://www.oet.org).

**Position Overview**
Data Engineers are typically on board for two to six weeks at a time, with one Data Engineer berth available per cruise. OET anticipates this position supporting 1.5 to 3 months of operations, as both parties’ schedules permit. Applicants must have proper authorization to work in the US and have a current passport and no travel restrictions.

The Data Engineer’s responsibility is to help ensure the success of the scientific and outreach mission goals by performing the following duties in collaboration with the rest
of the science and operations team:

**Primary Responsibilities:**

- Maintenance of data acquisition computers and software (Linux & Windows)
- Monitor established software for data aggregation and replication
- Assist ROV team with topside integration of new scientific instrumentation
- Maintain ship network - including switches, routers, firewalls, physical cabling
- Maintain satellite dish uplinks (SeaTel 9711 & KVH TracPhone V7IP systems)
- Support access to and use of on board scientific data collected, as well as internet access for consumer devices
- Maintain computers used for ROV operations, data collection & entry, and related supporting system as required
- Propose and develop incremental improvements to software, configurations, monitoring as time allows
- Steward hardware operation of hull-mounted sonar systems in collaboration with Science Department
- Support Science Manager’s software tools and data entry processes to ensure completeness and correctness of logged and processed data
- Support access to data for scientists ashore and OET production team

**Must be able to:**

- Prioritize unexpected repairs/issues, maintenance, and new work - with guidance from the Director of Data Engineering
- Keep a continuous pace of operations with two day turnarounds between cruises
- Be available in an on-call capacity 24/7 while at sea (no set shift schedule)
- Be physically and mentally capable of meeting the demands of living and operating aboard a working exploration vessel, and must be able to live in close quarters with other expedition team members (including a shared two-person cabin)

**Skills required:**

- Intermediate Linux system administration experience - including cron, apache, sudo, and configuration of new OS installations
- Experience with a scripting language (bash, perl, python)
- Understanding of version control systems (git)
- Intermediate familiarity with MacOS and Windows administration - enough to troubleshoot common problems
- Computer and communications hardware troubleshooting and repair experience
- Good with basic hand tools

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● Intermediate TCP/IP network familiarity
● Strong team player with a proactive, service-oriented attitude
● Demonstrate ability to work collaboratively with an international, multidisciplinary, diverse team of engineers, scientists, educators, and students
● Possess strong creative, analytical, and problem-solving skills
● Excellent multi-tasking and time management skills
● Excellent management and interpersonal skills
● Excellent verbal and written communications
● Excellent analytical and organizational skills

Preferred Qualifications & Experience:
● Advanced Linux system administration
● Experience with data processing (perl, python, matlab)
● Experience with databases (NoSQL, GIS)
● Intermediate to advanced software/systems engineering
● Satellite communication systems familiarity
● Scientific sonar systems familiarity
● Resistance to motion sickness
● Prior experience on research vessels

Works closely with the following team members (or their senior delegates on board):
● Director of Data Engineering
● Director of ROV Operations
● Expedition Leader
● Lead Navigator and/or Mapper
● Lead Video Engineer
● Science Manager
● Communications Manager

To APPLY: Please submit a cover letter and resume to careers@oceanexplorationtrust.org. Position open until filled.