

OCEAN EXPLORATION TRUST

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Status: Full Time

FLSA Classification: Exempt

Compensation Type: Salary

Benefit Eligible: Yes

Reports to: Chief Scientist

Location: Narragansett, RI (preferred) or CONUS

Anticipated Start Date: April 27, 2020 or sooner

Contact: careers@oet.org

Job Description: Director of Data Engineering

The Ocean Exploration Trust (OET) is seeking an experienced and flexible generalist systems engineer who can manage junior data engineers and contractors to support shoreside and shipboard oceanographic scientific, engineering, and outreach operations. This person will lead the team in on-shore development of new software and systems, and the design and stewardship of the OET science and outreach infrastructure. The position includes responsibilities at all levels from physical networking to complex system design.

This position is based in Narragansett, RI on the URI/GSO campus, with travel to the *Nautilus* and other platforms as required.

Responsibilities

- Set department priorities to ensure timely, reliable delivery of data products & maintainable infrastructure
- Develop and maintain in-house software specific to the scientific and outreach goals of OET and *Nautilus* and mobile assets
- Strategize and implement technology solutions for OET
- Design and implement systems architectures (including COTS) necessary to support scientific and outreach operations (e.g. data logging & storage, hardware monitoring & notification system)
- Sail as a Data Engineer on at-sea OET field programs for up to 10 weeks/yr (non-consecutive)

- Lead data stewardship for OET expeditions including managing data structure, accessibility, dissemination and delivery
- Mentor, supervise, and manage junior data engineers
- Manage contractors and employees for Satellite services & IT support
- Represent OET on the Ocean Exploration Cooperative Institute “Data Management and Usability” working group
- Interface with internal & external users to integrate equipment for operations, in cooperation with ROV team
- Interface with teams that maintain the Nautilus and provide input on priorities
- Support OET’s relationship with the Inner Space Center by acting as a liason
- Develop and manage annual department and satellite services budget
- Manage organizational use of Google G-Suite tools
- Represent OET at relevant conferences and workshops
- Other duties as needed and assigned

Qualifications & Skills

Required:

- Bachelor degree in Computer Science/Engineering, or equivalent experience, plus at least five years of applied experience
- Sound knowledge of Linux and network system administration
- Working knowledge of MacOS and Windows administration
- Ability to travel up to 12 weeks per year, non-consecutive (foreign & domestic)
- Excellent communication, multi-tasking, and time management skills
- Experience with software version control paradigms: svn, git, etc.
- Software engineering skills with an emphasis toward infrastructure and systems administration: bash, PERL, Python, javascript, C, web development
- Experience with word processing and spreadsheet programs
- Familiarity with physical networking standards and implementation
- Familiarity with fundamentals of data center design (small scale)
- Familiarity with VSAT operations
- Strong creative, analytical, problem-solving, and troubleshooting skills
- Be a strong team player with a proactive attitude
- Ability to work in close quarters, at sea
- Ability to work in a fast-paced environment with a multidisciplinary team
- Authorized to work in the United States according to United States Law
 - as evidenced by proper completion of the I-9 Employment Eligibility Verification Form
- Current passport and no travel restrictions
- Valid driver's license

Preferred:

- Exposure to scientific data systems and data processing, network programming experience, satellite communications experience, sonar operation experience, TDD Experience
- Experience with databases and/or GIS servers
- Experience with cloud storage and hosting services

Work Environment

This job operates partly in an office setting, partly in a data center-like environment, as well as on and around a heavy equipment working deck. This role routinely uses standard office equipment such as computers, phones, photocopiers, filing cabinets, scanners, rack-mount equipment and a variety of hand tools.

Expected Hours of Work

This is a regular full-time position, but while at sea, Data Engineers are on-call 24/7 as necessary, often working alone. Ability to keep up with ship operational tempo required.

Work Authorization

In compliance with federal law, all persons hired will be required to verify identity and eligibility to work in the United States and to complete the required employment eligibility verification document form upon hire.

Ocean Exploration Trust is an Equal Employment Opportunity/Affirmative Action employer and provides equal employment opportunity to all persons without regard to race, color, religion, sex, national origin, age, genetic information, disability, veteran status, political beliefs, sexual orientation, and marital and family status.

Signatures

Supervisor_____

HR/CFO_____

Employee signature below constitutes the employee's understanding of the requirements, essential functions, and duties of the Director of Data Engineering.

Employee_____ Date_____