



## **ATN DAC SCIENCE COORDINATOR**

### **AXIOM DATA SCIENCE IS RECRUITING A SCIENCE COORDINATOR FOR THE U.S ANIMAL TELEMETRY NETWORK (ATN) DATA ASSEMBLY CENTER (DAC)**

#### **BACKGROUND**

The [U.S. Animal Telemetry Network](#) (ATN) is an alliance among Federal and non-Federal, state, regional, tribal, and academic tagging partners to maximize collaborations within the community and access to animal telemetry data, to generate information products, to provide science-based information for species and ecosystem-based management, as well as to promote economic, social, and environmental benefits nationally and globally. The ATN is designed as a distributed technology and information network that applies consistent international data standards and best practices to achieve seamless integration, not only among various ATN observing assets and animal telemetry efforts, but also with other observing systems.

The U.S. ATN is supported by multiple Federal agencies and is hosted at the [U.S. Integrated Ocean Observing System](#) (U.S. IOOS) Program Office in partnership with the IOOC member agencies and in collaboration with the community of U.S. IOOS Regional Associations (RAs) and regional experts.

Governance is provided by a national ATN Steering Group (SG) that facilitates development and continuity of the ATN by representing agency research interests, identifying and fostering coordinated long-term strategies, and providing operational guidance and decision-making for the overarching ATN. The Steering Group includes 9 Federal agency representatives and 4 non-Federal member entities that provide funding or in-kind support to the ATN.

A central component of the ATN is its operational Data Assembly Center (DAC). Serving as a national aggregation point, the DAC receives satellite, acoustic and archival data from telemetry researchers, enables data access and sharing among regional and global partners and creates and expands telemetry data products.

#### **JOB PURPOSE**

[Axiom Data Science](#) ('Axiom') seeks a Science Coordinator for the U.S. ATN Data Assembly Center (DAC). Axiom develops and operates the enterprise-level cyberinfrastructure dedicated to the operational execution, support and customer service for the ATN DAC.

This position will be the primary interface between the U.S. marine animal telemetry community - satellite, acoustic and archival - and the software engineers and data scientists who operate the

technical components of the ATN DAC. The position will actively solicit telemetry community researchers to become data contributing members of the ATN and will work closely with all regional and national ATN collaborators to train and assist them with data and metadata submission to the DAC in accordance with ATN data policies.

For all stated duties, the scientific integrity of data in accordance with the ATN data policy and the focus on the interoperability of the ATN DAC with community partner data repositories are to be of foremost consideration.

### **CORE APPLICANT REQUIREMENTS**

- At least 3 years of experience working within the marine animal telemetry science field coordinating and/or implementing research activities.
- Masters degree (Ph.D. preferred) in the marine science, marine ecology, conservation or other relevant field.
- Demonstrated knowledge of and experience with satellite, archival and/or acoustic tagging, tracking and analysis of animal movement and behavior.
- Knowledge of and experience with data management best practices and tools for ocean science data including metadata formats, information lifecycle and community software modules for data processing.
- Demonstrated experience to create and maintain formal and informal collaborations with other research groups and institutions.
- Demonstrated capacity to enthusiastically communicate and execute a science vision that advances the ATN's long term goal of an alliance among Federal and non-Federal entities.
- Outstanding oral and written communication skills with ability to convey animal telemetry science to the stakeholders and the public in a compelling fashion.
- Excellent leadership skills, with demonstrated ability to create, motivate and lead effective teams as well as work with colleagues in a team-oriented environment.
- Excellent interpersonal skills with demonstrated ability to work effectively with a very diverse stakeholder group including Federal agencies, state, community and tribal agencies/organizations, and the academic community.
- Demonstrated self-starter with ability to develop and execute projects independently with limited daily guidance and oversight
- Ability to travel regularly to various national and international workshops and meetings.

- Basic knowledge of databases and scripting environments for data processing.
- Demonstrated experience in working with large data sets and spreadsheets.
- Strong project management skills.

### **KEY RESPONSIBILITIES**

#### Data coordination, acquisition and assembly

- In partnership with the SG, the Network Coordinator (NC) and the ATN DAC team actively solicit external collaborators to become data contributing members to the ATN DAC.
- In partnership with the SG, the NC and the ATN DAC team provide scientific oversight and operation of the DAC web-based data discovery, display, exchange and dissemination capabilities.
- Work cooperatively with the telemetry community to meet the data needs of Federal and non-Federal telemetry entities by advocating for metadata standards, and data exchange standards to insure interoperability among data repositories, quality assurance/quality control (QA/QC) methods, archiving the data in standard formats, and making the data accessible through common web services.

#### Communication

- Represent the ATN data team at national and international marine animal and oceanographic data symposiums and initiatives including data and metadata standards development groups and processes.
- Act as the principal liaison between the ATN DAC and Regional Acoustic Data Nodes and regional acoustic networks including the [Canadian OTN](#).
- Act as the principal liaison between ATN collaborators and Axiom DAC operations staff to resolve outstanding issues, and address deficiencies in submitted data and metadata.
- Interact with policy and advocacy players and stakeholders to insure ATN science is applied to conservation policy solutions

#### Data policy development and application

- In collaboration with Axiom software engineers and DAC operations staff assist with the development of standard operating procedures and protocols to facilitate data and metadata acquisition and ingestion in accordance with ATN data policies and standards.
- In collaboration with the ATN SG, the Network Coordinator (NC), and collaborators this position assists with development and maintenance of ATN Data Policy, Templates and Workflow documentation to ensure ongoing compliance with ATN and community data quality procedures and data policies.

### **LOCATION**

This position will be based out of the central coastal California area, working initially in Moss Landing at the [Central and Northern California Ocean Observing System](#) (CeNCOOS) office collocated with the [Monterey Bay Aquarium Research Institute](#) (MBARI).

### **EXPECTATIONS FOR AXIOM STAFF AND THE ANIMAL TRACKING NETWORK**

Axiom Data Science is a technology and informatics firm working towards building a better understanding of society and the environment by increasing the accessibility, reuse and impact of scientific data.

We specialize in developing data management systems, intuitive web-based data portals and scalable solutions for organizing and analyzing large amounts of complex heterogeneous data. Our partners primarily include federal government, research institutions and universities, though we do occasionally work to support state government, private companies and non-profit organizations.

Axiom is a small and quickly growing organization with 20 staff. We are based in Anchorage, AK and have satellite offices in Fairbanks, AK, Portland, OR, and Wickford, RI. This position will be physically situated at the office of Axiom's partner, CeNCOOS, in Moss Landing, CA.

The skill set of the Axiom team is a mix of people with programming and science backgrounds. We work together extensively, and learn from each other. As a Science Coordinator within Axiom, you will support our company from the data management and communications perspective. This is a newly-developed position created to respond to the growth of our data management and technical system operations related to the ATN DAC. This position will carry out the data coordination aspects of the ATN DAC with support from the Axiom software architect team working to execute the technical aspects of the DAC.

Our ideal candidate will merge a scientific understanding with strong collaboration and leadership skills, particularly with an emphasis on coordinating diverse tasks in an agile/dynamic work environment. The person we hire will ideally have familiarity with, or capacity to learn, the basics of both data management and our technical systems to be most effective in partner communications, project planning, and identifying new areas of growth. They also need to have expertise in the scientific context and culture in which all of this work is done and communicated. They will be highly-motivated and have the ability to work and resolve issues independently, while maintaining effective working relationships and close communications with partners and across the Axiom team.

### **COMPENSATION AND BENEFITS**

Competitive salary (75K-95K) commensurate with experience. Benefits include five weeks paid leave, flexible holidays, health benefits, 401K contributions, and a gym membership.

### **APPLY**

Please send a resume and cover letter to [careers@axds.co](mailto:careers@axds.co) by September 21, 2018.