



# Axiom

DATA SCIENCE

**Axiom Data Science, LLC**

<http://axiomdatascience.com/about/>

**Title:** Environmental Data Scientist

**Location:** Fairbanks, Alaska - [map](#)

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. Axiom is based in Anchorage, AK and has satellite offices in Fairbanks, AK, Portland, OR and Wickford, RI; this position is based in the Fairbanks satellite office.

### **Position Details**

As an environmental data scientist with Axiom, you'll be working with us to provide scientific support and expertise for software developers working on data problems related to managing and visualizing real-time sensor observations, satellite images, climate forecasts, oceanographic cruises, field campaigns, and more.

The bulk of the position will be helping Axiom staff to manage and maintain data and metadata from automated sources, such as real-time sensors, oceanographic instrumentation (e.g. gliders, animal telemetry), and/or AIS vessel tracks. The rest of the position will be flexible based on specific project requirements. Axiom works with a large range of (mostly) physical scientists from a range of federal, state, and private organizations. You will be helping us to understand and achieve their diverse data goals using direct communications and implementation of technical, web-based scientific data management tools.

Example duties for this position may include communicating with a NOAA researcher to set-up an automated data flow from the newly installed Little Port Walter Marine Array to an Axiom custom-developed database in order to display real-time oceanographic data streams to the Alaska Ocean Observing System's web-based portal. Or you might be working with a team of researchers who want help automating the data processing for annual mussel bed density in Prince William Sound using Axiom's data analytics tools. Or you might work with a consortium of ocean acidification researchers to design and develop a public-facing informational website with capabilities for accessing or interacting with visualized data.

Your work will involve a mix of engaging our diverse clients, understanding their needs, translating their goals to a team of software engineers, and participating in iterative software development to meet their objectives.

### **Preferred Qualifications**

As a small company taking on complex information science challenges, Axiom depends on all employees being multi-talented, imaginative, resourceful, and willing to independently learn new skills. While we desire someone with as many of the below mentioned characteristics as possible, experience in all the described areas is not required.

- Bachelor's Degree to PhD or equivalent industry/academic experience in a physical science (biology, geology, ecology, meteorology, oceanography, etc.)
- Experience using programming languages to solve scientific problems including data processing and graphing (e.g., Python, R, Matlab, Java, Javascript, , etc.)
- Familiarity with responsible data management best practices, including metadata (CSDGM, ISO 19115, EML, Darwin Core, etc.) and standard data storage formats for environmental data (GIS formats, netCDF, etc.)
- Experience working with oceanographic instrumentation and/or oceanographic data
- Database management experience for data and metadata storage and processing (e.g., PostgreSQL)
- Familiarity working with various funding organizations (National Science Foundation, National Oceanic and Atmospheric Administration, Integrated Ocean Observing System, Bureau of Ocean and Energy Management, National Fish and Wildlife Federation, etc.)
- Excellent written and verbal communication skills, especially regarding translating scientific information and needs to a variety of audiences
- Self motivated, independent, and flexible
- Ability to effectively manage time and prioritize tasks across many diverse projects

### **Compensation**

Competitive salary commensurate with experience. Benefits include five weeks paid leave, holidays, health benefits, 401K contributions, and a gym membership.

### **Apply**

Please send a cover letter, resume and any relevant references to [careers@axds.co](mailto:careers@axds.co)