



Axiom

DATA SCIENCE

Axiom Data Science, LLC

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

Title: Software Developer

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

[Axiom Data Science](#) is recruiting for a software developer to contribute to the advancement of the organization's web-based scientific data management tools. This position will be located in Fairbanks, AK and will work under the direction of a Senior Software Developer (also located in Fairbanks). This is a full-stack software engineering position with additional responsibilities in development and operations. Applicants should be capable of solving problems and interested in implementing solutions in all areas of computing, whether in back-end data services, front-end user interfaces, or data analysis. The ability to learn quickly and desire to improve are a must. Experience with industry-standard open source tools is important, but inspiration, vision, self-efficacy, motivation, determination, and commitment are the qualities Axiom values most.

As a small company taking on complex information science challenges, Axiom depends on all employees being multi-talented, imaginative, and resourceful. Staff are provided with the tools they need to perform at their highest potential and rewarded with an employee-focused work environment. While we desire someone with all of the below mentioned characteristics, experience in all the described areas is **not** required. We are looking for developers who have strong potential to grow, and junior or entry-level engineers are encouraged to apply.

Software Engineering

Axiom uses free and open source software. Most projects are developed using Java or Python and focused on Linux operating systems. Applicants should be familiar with the basics of application architecture, source control management, web and command line application

development, database design, software artifact repositories and package systems, dependency management, unit and integration testing, and continuous deployment techniques.

Science Background

Axiom works almost exclusively with the scientific community with a focus on Earth, ecological, and marine sciences. Knowledge of these fields of science along with familiarity with common data types and domain specific software packages is beneficial. Experience with scientific and spatial data formats and interoperability standards (e.g. NetCDF, GeoJSON, OGC standards) is preferable. An understanding of the characteristics, capabilities, and challenges of spatial and temporal data is highly desired.

Development Operations

Axiom makes heavy use of continuous integration, automated deployment, and containerization techniques to streamline infrastructure configuration and application deployment. Applicants will benefit from experience and knowledge of these techniques, and at a minimum should be enthusiastic to learn about and adopt these rapidly evolving technologies.

Big Data Systems

Horizontally scaling storage and compute technologies make it possible to preserve and analyze large scale and heterogeneous scientific data sets. Axiom is seeking candidates with experience working with these types of technologies.

Technologies

The following is a non-inclusive list of technologies that we use in our product development and infrastructure management. Applicants are **not required** to have experience with these technologies, and future projects are **not limited** to these technologies. These examples are provided only to inform applicants of our current technological focus.

Python, Jupyter Notebooks, Pandas, Scipy, Conda, Java, Hibernate, Maven, Postgres, PostGIS, GlusterFS, Elasticsearch, Prometheus, Kafka, TimescaleDB, Apache Spark, Docker, Ansible, GitLab, NetCDF, GeoServer, ncWMS, NodeJS, D3.js, Backbone.js, Angular.js, React, Play Framework

Compensation and Benefits

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

Apply

Please send a resume to careers@axds.co . The following additional application materials are recommended, but not required: Github profile link; StackOverflow profile link; description of a completed project; and other examples of expertise or open source participation.