



Eagle Rock Analytics

Jr. Atmospheric Scientist | Data Scientist in Climate Data Analytics

Position in Sacramento, CA or Remote

Position Overview.

We are hiring an Jr. Atmospheric Scientist / Data Scientist in Climate Data Analytics to support the development of two cloud-based climate and weather data platforms for California's energy sector. Primary responsibilities for the Jr. Atmospheric Scientist will be to do applied research - manipulating and working with very large geospatial datasets and developing code for the platforms. The project is heavily dependent on stakeholder engagement, requiring flexibility and adaptability. This is an early career position - we'll work with you to align work tasks with your skills and career goals.

We know that scientists are a varied lot, and will consider full and part-time applicants, applicants seeking to work non-traditional hours and applicants working remotely. If your experiences don't line up with what is outlined below, but think you'd be a great fit for the project, please still apply so we can learn more about you.

Due to COVID-19 we are working remotely for the foreseeable future. If employees are interested in returning to office when it's safe, vaccination will be required.

Position Responsibilities.

The Jr. Atmospheric scientist duties will be split between two major responsibilities:

1. Develop climate and historical weather data platforms
 - Develop and incorporate open-source tools and algorithms into data platforms
 - Support platform development by onboarding tools and toolkits
 - Add components and functionality to externally developed architecture
 - Identify and incorporate relevant data products
 - Document products and code, perform additional technical/scientific writing
 - Engage and train stakeholders and clients on developed products
2. Process large geospatial datasets (i.e. downscaled climate models, reanalysis, observations)
 - Calculate metrics and statistics
 - Perform exploratory data analysis
 - Develop code to execute analytics and methods designed by project partners
 - Develop and apply QA/QC protocols for observed data
 - Create web-based visualizations (and toolkits) of geospatial datasets



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Other responsibilities for the Jr. Atmospheric Scientist include the following:

- Run and improve pre-existing code processing geospatial data
- Execute existing tools on geospatial data (i.e. post-process WRF data)
- Work with stakeholders and clients:
 - Communicate with decision makers, policy makers and energy sector professionals
 - Perform stakeholder interviews and facilitate workshops
 - Perform usability assessments of developed products
- Periodic travel (when it is safe to do so) to workshops, seminars, conferences, and meetings with our partners.
- This position requires a lot of computer work, applicants will need to be capable of working at a desk or computer for the majority of the workday.
- Very rarely you may be asked to work late or on weekends.
- Perform other duties as required. We are a small team, and sometimes you'll have to do tasks that are outside of position scope.

Required Qualification.

- Share our [values and vision](#), particularly in creating an inclusive and welcoming workplace.
- Experience working with large geospatial data.
- Demonstrated capacity to work independently.
- Education, experience and/or skill in atmospheric, climate or environmental sciences and/or data science. Applicants are likely to have a B.S. or M.S., but we're open to non-traditional hires too.

Desired Qualifications. *We anticipate applicants having some of these qualifications.*

- Experience performing scientific/computational work in the cloud on AWS, or better -- experience developing applications on AWS.
- Knowledge of a modern computing language (such as Python, R, or Fortran77) or proprietary/dying computer languages (such as MATLAB or IDL), along with the willingness to learn other languages. Experience working with scientific (geophysical) toolkits (i.e. nco, cdo, ncl), repositories/libraries (i.e. MetPy, numpy, scipy, tidyR), or visualization packages (i.e. ggplot, matplotlib, cartopy) a plus. Basically, we hope to find a candidate who has knowledge *any setup* for working with big geospatial data, and trust your capacity to learn our particular approach (i.e. python).
- Experience manipulating GIS layers
- Functional knowledge of statistics
 - Knowledge of basic exploratory data analysis techniques
 - Multi-variate, advanced spatial, or machine learning techniques a plus
- Familiarity with QA/QC procedures for environmental datasets
- Strong oral and written communication skills a plus

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About Eagle Rock Analytics.

We are a small climate and environmental consulting firm, with a focus on applied research that transforms big geospatial data into understandable information that answer questions or advances the science. We don't take profits on most projects, allowing us to prioritize our clients and stakeholders, maintain professionalism and scientific ethics, and do work without ego. We're hoping to find people to join our team who agree that slow, steady, methodical and empathetic is better than a fast-paced, work-hard-play-hard, everyone is a unicorn/rockstar approach.

Benefits & Compensation.

Salary for this position will be a minimum of \$5,000 per month or ~\$60,000 per year, and higher for experienced candidates. Salary for this project was set by referring to the State of California pay-scale for Air Pollution Specialists, and is competitive with jobs in the environmental sector within California. We are advertising this position as a full-time, non-exempt position based in Sacramento, CA but will strongly consider applicants seeking part-time employment and/or working remotely.

Eagle Rock Analytics offers a flexible workplace with a generous benefit package, including at a minimum health & dental insurance, retirement (i.e. 401k) with employer matching, liberal paid time off, and professional development opportunities. As a smaller company we are able to work with employees to meet their needs, we'll offer some of the following benefits to full time employees, based on stated needs of our staff: life insurance, long-term disability insurance, childcare spending accounts, and other tax advantaged fringe benefits. ERA will take no profit on this work, budget slack will support additional employee perks.

How to Apply or Learn More.

Questions?: Submit your questions about the application process, position, or working at Eagle Rock Analytics to jobs@eaglerockanalytics.com. You can also consult our [careers FAQ](#) for additional information.

To Apply: E-mail a cover letter and resume/cv to jobs@eaglerockanalytics.com with the subject line of "Jr. Atmospheric Scientist." In lieu of a cover letter, we welcome a Statement of Qualification which addresses in your own words why you are qualified for the position. Please limit replies to 2 pages, with 1" margins and size 12 Times New Roman font.

Deadline and Process: We'll begin reviewing applications on July 26th, and will continue to do so until the listings are removed from our website. We will reach out to successful applicants for references and interviews in July or August. All applicants will be notified when the position is filled.

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