



Eagle Rock Analytics

Research Associate in Science Communication, Climate Analytics or Scientific Software Development

Remote Work for California Residents

Position Overview.

We are hiring **Research Associates** across three focus areas:

1. **Science Communication:** Communicating complicated climate issues to a varied audience through multiple mediums.
2. **Climate Analytics:** Developing Jupyter notebooks to enable vulnerability and adaptation assessments using best practices within scientific and statistical approaches.
3. **Scientific Software Development:** Build and execute scientific software and code, such as; developing an open source python library to apply cutting edge analytics techniques and data access to downscaled climate projections; build novel web based tools for visualizing climate information and executing scientific models on high performance computing on the cloud.

The Research Associate would primarily contribute to Cal-Adapt: Analytics Engine. The Research Associate position would be a good fit for early career scientists, recent graduates or current graduate students looking for salary and experience.

We know that scientists come from a variety of backgrounds, and will consider full and part-time applicants, applicants seeking to work non-traditional hours, and applicants working remotely. Candidates must be based in California and be available to work starting Feb 1, 2025. If your experiences don't line up with what is outlined below, but you believe you would be a great fit for the project, please still apply so we can learn more about you. This position is a remote, non-exempt, seasonal/temporary role which pays hourly.

Position Responsibilities.

Applicants will contribute their expertise via the following responsibilities:

1. Scientific Analysis and Research
 - a. Execute climate and statistical analysis on geospatial data
 - b. Quantify probabilities of critical weather and climate events
 - c. Generate figures, tables and other visualizations of climate data
 - d. Execute scientific or technical writing
2. Scientific Programming
 - a. Develop, document and test scientific code in a collaborative environment
 - b. Build Jupyter notebooks that execute complicated scientific workflow
 - c. Develop novel data visualizations tools
 - d. Execute modeling and data science within AWS cloud environment
 - e. Technical writing - with a focus on documentation and tutorials

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3. Communication of Scientific and Technical Principles
 - a. Produce understandable guidance on scientific best practices
 - b. Contribute writing to hazard and vulnerability assessments
 - c. Answer questions from users
 - d. Document requirements gathering on technical / scientific tasks
 - e. Engage in webinar and/or one-on-one training sessions

4. Outreach and Engagement
 - a. Perform technical writing to support outreach efforts
 - b. Organize and participate in meetings with state agencies, non-profits, and other entities
 - c. Communicate with decision-makers, policymakers, and energy sector professionals
 - d. Perform stakeholder interviews and facilitate workshops
 - e. Perform usability assessments of developed products
 - f. Synthesize engagement efforts
 - g. Document processes and findings for non-technical or non-scientific audiences

Depending on interest, applicants could also participate in the following tasks as interested/needed:

- Public Policy
 - Attending and presenting at statewide forums
 - Participating in California Energy Commission events
 - Participating in California's Fifth Climate Assessment events

- Business Development
 - Organizing workshops and scientific events
 - Working with governmental forms
 - Reviewing and editing proposals and other technical writing
 - Observing budgeting, invoicing, and bookkeeping practices
 - Gaining experience collaborating in a modern, remote working environment

- Supporting development of climate vulnerability assessments
 - Researching technical / methodological approaches for quantifying regional vulnerability
 - Developing streamlined processes and documentation for collaborators and external partners

- Developing a cloud based repository of weather station observations:
 - Researching and building QA/QC protocols for observed data

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- Automating the collection of weather data and cleaning functions on AWS
- Performing exploratory data analysis on weather/climate data
- Creating web-based visualizations (and toolkits) of geospatial datasets
- Documenting platform features and code, perform additional technical/scientific writing

General position requirements:

- Periodic travel 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.
- This position involves executing complex research and computational independently, in a timely fashion. This requires applicants to be able to learn new tasks, maintain focus, execute documentation processes, complete tasks independently, make timely decisions without consultation, and communicate clearly with team members.
- 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.

- Interest in a career in science, particularly applied research in environmental/climate fields
- Share our [values and vision](#), particularly in creating an inclusive and welcoming workplace
- Demonstrated capacity to work independently
- Technical writing skills and the ability to communicate politely and effectively
- Education, experience, and/or skill in atmospheric, climate, or environmental sciences and/or data science
 - Applicants for the Research Associate position are likely to have a B.S., M.S. or Ph.D.
 - We're open to non-traditional hires too!

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

- Basic knowledge of statistics
- Familiarity with climate science concepts and general approaches
- Familiarity with geospatial data and Python (or similar language)
- Good verbal and written communication skills
 - Especially ability to "translate" between scientific, technical, and non-technical audiences
- Ability to self-manage tasks
- Establish training approaches for various audiences

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 answers questions or

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advances the science. We don't take profits on public good 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.

The salary for this position will be \$30 to \$36 per hour and higher for experienced candidates. For candidates who seek full time employment this equates to \$62,400 to \$74,880 per year. We are advertising this position as a remote, full-time, non-exempt position based in Sacramento, CA but will strongly consider applicants seeking part-time employment.

Eagle Rock Analytics offers a flexible workplace with a generous benefit package, including at a minimum, health benefits, retirement (i.e. 6% employer contribution to 401k) and paid time off. As a smaller company we are able to work with employees to meet their needs, and we prioritize work-life balance.

How to Apply or Learn More.

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

To Apply:

- E-mail a resume/cv to careers@eaglerockanalytics.com with the subject line of "Summer Communications Associate."
 - Resume title should be "Lastname Firstname - 2024 Research Associate"
 - e.g. "Smith John - 2024 Research Associate.pdf"
- In the body of the email, indicate your answers to the following questions
 - "Are you eligible to work in the United States of America?"
 - "Are you a resident of the state of California?"
 - "Is your salary requirement within the range offered?"
- Attach a Statement of Qualifications which addresses in your own words: (1) why you are interested and qualified for the position, and (2) a link to and/or description of a project or product you are proud of (a link could be your GitHub, a publication, a conference proceeding, etc).
 - Please limit replies to 2 pages, with 1" margins and size 12 Times New Roman font.



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Deadline and Process: We'll begin reviewing applications as they come in, and will continue to do so until the listings are removed from [our website](#). We will reach out to successful applicants for interviews. All applicants will be notified when the position is filled.