

## Full Stack Web Developer (Clojure) for Avoided Wildfire Emissions

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### **About the Company**

Spatial Informatics Group, LLC (SIG), is an environmental think tank focused on solving complex environmental problems and taking unique solutions to market. Our group combines spatial analytics with ecological, social and economic sciences to understand and quantify the impacts of management and policy choices on the short and long-term stability of ecosystems.

We specialize in capturing geospatial data using remote sensing technology and offer services in environmental mapping, ecosystem quantification, forest management, forest carbon offsets, and fire risk management.

We're a tight knit, mission-driven team, distributed across the globe, and positioned for rapid growth. Come join our team of applied thinkers, scientists, technologists, and business professionals.

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**Job Description:** SIG is searching for a Full Stack Web Developer to focus initially on developing a web application for implementing a novel carbon protocol - [Avoided Wildfire Emissions](#) (AWE) - a forecast methodology under the Climate Forward program to recognize the climate benefits associated with fuel treatment activities that lower the risk of catastrophic forest fires and the emissions associated with them.

The successful candidate will be joining a software team including developers, designers and project managers. With support from SIG's wider group of environmental scientists and consultants, the application will leverage public and open source data and models to develop an application to implement the AWE carbon protocol. The position will grow into supporting wider web application decision support services SIG provides. Examples include [wildfire work with Pyregence](#), and land-use change ([collect.earth](#)).

SIG is a digitally native organization with personnel distributed across three continents. Therefore, the position is for remote work only, preferably based in US compatible timezones.

**Application Deadline:** Interviews will be on a rolling basis. Applications will be continuously reviewed until suitable candidates are identified.

**Responsibilities:** The following list provides a description of this position's responsibilities:

- Work closely with a team of 13 developers, designers and project managers to create, deploy, and maintain high-impact science-sharing web applications, such as environmental simulation models, spatial data distribution platforms, or offline UIs for scientific analyses.
- Work closely with product/project managers to deliver on time, on budget, and within scope.
- Complete development processes using Clojure/Clojurescript, Java/JavaScript, and other languages/technologies as required below.
- Working in a distributed team environment with frequent text, voice, and video communications with other developers
- Implement version control procedures with Git and Github/Gitlab, including creating/closing issues, creating/reviewing/merging pull requests, and good branch management

**Job Specification:** The following list provides a summary of the position's requirements:

- Minimum three (3) years experience developing web applications
- Experience in Clojure/Clojurescript or experience in a different Lisp dialect (e.g., Scheme, Common Lisp)
- Experience with web mapping using OpenLayers or Mapbox
- Experience with geospatial processing using PostGIS, GeoTools, and/or GDAL/OGR
- Experience with SQL DB programming in Postgresql and PostGIS
- Familiar with networked programs or microservices
- Familiar with functional reactive UI development using ReactJS and/or Reagent
- Familiar with functional programming techniques (e.g., pure functions, immutable data, closures, laziness, function composition, memoization)
- Comfortable working in a Linux environment from the command line and administering remote servers over SSH

Additional preference will be given to candidates with.

- Domain expertise in wildland fire science, environmental monitoring or carbon accounting
- Experience running geospatial/scientific models from the command line

**Terms of employment:** The position is recruited on a full time employment basis. In addition, part-time consultancy work may also be considered depending on the experience and availability of the candidate.

**Salary range:** \$80,000-100,000

*Details will be provided during the interview process for Legal Residents in the US. Regional Contractor Rates will apply to applicants outside the US.*

*SIG is an Equal Opportunity Employer. We are committed to diversity which includes the recognition that our success is best advanced by the leadership and contributions of women and men of diverse backgrounds, beliefs and culture. We encourage applicants from all cultures, races, colors, religions, sexes, national or regional origins, ages, disability status, sexual orientation, gender identity, military, or other status protected by law.*

**Apply by emailing CV to [jobs@sig-gis.com](mailto:jobs@sig-gis.com)**