



Spatial Informatics Group - Natural Assets Laboratory

Employment Opportunity Announcement

August 2023

Spatial Analyst

Spatial Informatics Group - Natural Assets Laboratory (SIG-NAL) is a 501(c)(3) organization founded as a non-profit with a mission to develop and apply the scientific foundation needed to link economic and environmental interests, by accounting for the full value of natural assets. SIG-NAL works to integrate the science of natural assets with tools, policies and decision-making for public benefit. SIG-NAL's expertise ranges from landscape ecology, wildlife ecology, forestry, ecosystem services valuation, natural climate solutions, climate adaptation, carbon markets, to natural resource economics. We work collaboratively in a virtual laboratory to advance scientific frontiers of resilience and regenerative ecosystems.

Job Description: SIG-NAL a spatial analyst to assist in a range of projects and programs. A large portion of the applicants work will be on the Regional Wildfire Mitigation Program. The RWMP is a multi-year initiative designed to assess hazard, exposure and vulnerability and equitably reduce wildfire hazard across the Santa Barbara front country. The program goals are to decrease the risk of wildfire impacts to structures and infrastructure, promote wildfire resilient green space, working lands, and habitats, and develop community capacity to adapt and recover from the shocks of natural disasters. The Spatial Analyst will implement data analysis and cartography projects pertaining to Landscape, Built Environment, and Community resilience initiatives. The Spatial Analyst will lead the collection, and organization of data critical to building a web based toolkit and decision support tool. The applicant selected will work closely with numerous organizations and wildfire experts, providing advisory services to land managers, scientists, community groups and non-profits, state and local agencies for this progressive and collaborative program.

Application Deadline: Applications will be continuously reviewed until a suitable candidate is identified. Interviews will be on a rolling basis.

Responsibilities:

- Liaise with the RWMP Landscape, Built Environment and Community Resilience domains to leverage expertise, and gather data critical to cross domain analysis

- Work cross functionally with software development teams to build and implement web based spatial data visualization and analysis tools
- Support the development of various products related to wildfire resilience including GIS mapping and modeling tools, wildfire risk assessment and resilience plans, community engagement and wildfire protections, and landscape project implementation plans.
- Develop and maintain a strong understanding of local decision making and regional activities for near- and long-term landscape restoration and wildfire safety and resilience.
- Represent SIG-NAL to governmental and non-governmental stakeholders in the region

Desired Qualifications:

- 3-5 years experience in environmental spatial analysis, experience with wildfire, ecosystem science, social vulnerability data, built environment data
- MS in geography, environmental science, forestry, natural resource management, GIS, or related field
- Expertise in cartography using ArcGIS or similar
- Familiarity with open source data tools
- Experience with R
- Interest and experience in grant writing to fund continued work
- Proficiency with wildfire risk assessments and geospatial tools for mapping and predictive modeling of wildfire behavior and risk
- Experience in developing large scale coordinated projects for environmental, natural resources, and/or climate change resilience programs
- Extensive program management experience involving collaborative planning and implementation across communities, sectors and/or organizations
- Excellent communication and people skills for shared leadership and coordination across teams and projects, community and stakeholder engagement, and proliferation of progressive resilience planning

Terms of employment: The position is located in Santa Barbara, CA and currently has funding through September 31, 2024 on a full time employment basis. Part-time consultancy work may also be considered depending on the experience and availability of the candidate. The Salary for this position is advertised at \$75,000.

Applications: Applicants are invited to send a cover letter illustrating their suitability along with a curriculum vitae, and names and contact information for at least 2 references. All correspondence should be emailed and addressed to Graham Wesolowski, SIG-NAL Program Director at careers@sig-nal.org. Please include your name and “Spatial Analyst” in the subject line.

SIG-NAL is an Equal Opportunity Employer. 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 to apply.