

SALO Careers

Title	Wildfire Scientist
Role	Technical implementation of wildfire models
Location	Remote
Compensation	\$75,000 annual salary
Period	One year, with potential for renewal

About us

[Salo](#) is a conservation tech company. Our mission is to accelerate solutions to climate change and biodiversity loss by guiding investments in natural climate solutions: conservation, restoration & improved land stewardship. We use three tools—satellite data, artificial intelligence & ecological modeling—to identify conservation opportunities, monitor ecosystem health & predict environmental change.

Salo has teamed up with Vibrant Planet and Planet Labs to build the [California Forest Observatory](#). The core of the platform is an AI engine that provides a statewide view of forest structure and fuel loads at the tree-level, and will integrate data on wind and weather, soil and vegetation moisture & population and infrastructure. You will work to integrate these data into contemporary wildfire models to develop a real-time, dynamic map of wildfire hazard and risk—one that can support forest restoration planning and active fire operations.

Primary responsibilities

- Review and write a report on contemporary wildfire modeling systems
- Work with Salo's engineering team to implement one or more wildfire hazard modeling systems into the California Forest Observatory, including appropriate external weather, climate & other ancillary data sources
- Assess model performance against historical wildfire data
- Compare wildfire model performance using Salo fuels data to Landfire fuels data
- Identify opportunities to re-parameterize existing wildfire models with continuous (i.e., not categorical) data sources
- Publishing model results and performance in open-access, peer-reviewed journals
- Actively engage and collaborate with wildfire scientists and technical staff from government agencies, universities, NGOs & companies
- Represent Salo at meetings and conferences related to wildfire, including meetings with state and federal agency leadership and scientists



Required experience

- Ph.D.—or similar level experience (Ph.D. is not required)—in fire science, fire ecology, complex systems, catastrophe modeling, or a related field
- Experience with software programming (Python preferred)
- Demonstrated scientific writing ability
- Strong project management skills

Recommended experience

- Familiarity with FARSITE, FlamMap, FSim, or other wildfire modeling systems
- High performance computing experience
- Geospatial data expertise
- Reviewing software in multiple programming languages

Start date

Fall 2019

How to apply

Send your application to careers@salo.ai. Please include the following.

1. Email subject line: “sal0: wildfire scientist position”
2. Your resume / curriculum vitae
3. A one-page cover letter describing your fit for the position
4. Optional: relevant appendix material (like a publication list or portfolio)

