

SALO Careers

Title	Cloud Cluster Engineer
Role	Develop and maintain a scientific computing cluster
Location	Remote
Type	Contractor (full- or part-time)

At Salo Sciences we're working to reduce catastrophic wildfires and conserve forests as a means to fight climate change. Join our growing team of scientists and engineers building solutions for conservation and climate change mitigation around the planet. You'll be working on our next-generation conservation technology system: the [Forest Observatory](#). As we expand the scope of the Observatory to cover more regions and map new patterns of environmental change—including wildfire risk and carbon sequestration—we are hiring a contractor to build and maintain a cloud-based scientific computing cluster for processing airborne LiDAR data and running fire spread simulations.

About us

[Salo Sciences](#) is a conservation technology 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.

Last year we teamed up with [Planet](#) and [Vibrant Planet](#) to build the California Forest Observatory, a tree-scale forest monitoring system mapping the drivers of fire behavior at high resolution. We utilize custom, cloud-based scientific computing clusters with hundreds of nodes as part of our vegetation and wildfire modeling workflows, simulating hundreds of millions of fire spread scenarios. Join us to improve our existing infrastructure to be more robust and handle new types of data and modeling workflows.

Primary responsibilities

- Increase the flexibility of existing software to handle new data and model workflows
- Extend node fault tolerance and increase the reliability of the cluster
- Improve system architecture to reduce cost overhead
- Troubleshoot incidents and implement preventative solutions

Required qualifications

- Python development



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- Distributed computing
 - Google Cloud Platform
 - Slurm cluster management

Preferred qualifications

- Geospatial software development or experience with geospatial data
- API development

Start date

Immediate (posted 07-30-2021)

How to apply

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

1. Email subject line: "Salo: cloud cluster engineer"
2. Your resume or curriculum vitae
3. A paragraph describing your fit for the position
4. Optional: relevant appendix material (GitHub account, links to current/previous projects)

