**Fervo Energy Roles:**

Decarbonizing the energy sector is an urgent challenge, and with the right technology, geothermal energy can play a central role. We are expanding our team to help make this vision a reality. Fervo Energy has developed technology to make geothermal power scalable and cost-effective. Join us and work alongside world-class engineers, researchers, investors, and developers in making geothermal a key pillar of our climate-friendly energy future.

Position Description

Fervo Energy is looking for a Geophysics intern to join our team in Summer or Fall 2023. The intern will have a unique opportunity to work with a growing climate tech team working on geoscience innovation to accelerate the clean energy transition. This work will be based on a first-of-kind dataset from a next generation geothermal project involving Surface/Borehole based seismic and fiber optic data. The intern will work on one or more of the projects mentioned below.

Tentative projects:

* Use PhaseNet and other ML and Deep Learning based methods for event picking followed by association and locating earthquakes.
* Implement an end-to-end cloud-based solution for Real-time seismic monitoring at future Fervo geothermal projects.
* Multi-well borehole DAS based microseismic event location and moment tensor inversion.

Required and Preferred Qualifications

* Required: Pursuing PhD in Geophysics or applied mathematics and computer science with background in geophysics.
* Required: Experience working with, processing, and managing large data sets. Working knowledge with distributed fiber optic data is a plus.
* Required: Experience in developing code in at least one language (ideally Python or C/C++).
* Preferred: Familiarity with public cloud compute and storage resource orchestration. Google Cloud technical certifications is a plus.
* Preferred: Working knowledge of cluster deployment and operations on the cloud. Experience with containers – Docker and Kubernetes.
* Preferred: Understanding of single-node performance (code optimization) and multi-node scaling issues for the data science portfolio (MPI, multi-threading, GPU, etc.).
* Preferred: Background in applied mathematics/physics, especially in inverse problems, numerical inversion, numerical simulation, linear and nonlinear solvers, and optimization.

Location

The position will be based in Houston or Denver. This position will be eligible for a large amount of hybrid work flexibility.

About Fervo Energy

Fervo Energy commercializes innovative technologies to develop, operate, and own geothermal assets as the dispatchable foundation to a 100% clean energy future. As a 24/7, reliable clean energy resource, geothermal energy has a major role to play in the future electric grid. Fervo’s innovations include technologies such as advanced computational models, horizontal drilling, and distributed fiber optic sensing that we have developed with partners including Schlumberger, ARPA-E, and the Lawrence Berkeley National Lab. Fervo was founded in 2017 and is supported by Cyclotron Road, the Department of Energy, Stanford University, Breakthrough Energy Ventures, Capricorn Partners, Helmerich & Payne, Liberty Oilfield Services, DCVC, CPPIB, and BHP, among others.

Fervo’s culture is fast-paced, innovative, and collaborative. We believe in building things that last, constantly innovating, doing what we say we’re going to do, and stopping to smell the roses.

**Please submit a brief cover letter and resume to** [**careers@fervoenergy.com**](mailto:careers@fervoenergy.com)**.**

Fervo Energy is an Equal Opportunity Employer and does not discriminate on the basis of race, color, creed, gender, religion, marital status, registered domestic partner status, age, national origin, ancestry, physical or mental disability, medical condition, sex, genetic information, sexual orientation, military and veteran status or any other consideration made unlawful by federal, state, or local laws. It also prohibits unlawful discrimination based on the perception that anyone has any of those characteristics, or is associated with a person who has or is perceived as having any of those characteristics.