

Position Title

Geysers 2017 Geoscience Intern

Application link for students to apply:

https://rn11.ultipro.com/CAL1005/jobboard/NewCandidateExt.aspx?_JobID=1877&_jbsrc

Position Description

This supervised position will allow a geosciences student interested in a career in the geothermal industry to apply and enhance their knowledge of geothermal resource operation and development. The selected candidate will benefit from exposure to the operations of a well-established geothermal energy provider, familiarization with the relationship of surface mapping and subsurface geologic structure and 3D model building and visualization software.

This position will require the individual to work a 4 day, 10 hour, day-shift. Limited overtime work (nights and weekends) may be required. This job will be based at The Geysers power plant near Middletown, California.

Essential Duties and Responsibilities will include:

The Geysers Geoscience Intern will assist with the continued refinement of The Geysers 3D structural model by completing surface field geologic mapping of selected areas, and refining and editing portions of an existing ArcGIS digital surface map. Assistance with the 3D structural model building and visualization process will also include data manipulation and data loading, quality control and organization; and guided literature review.

The above statements reflect the general details considered necessary to describe the essential functions of the job and are not to be construed as a detailed description of all the work requirements that may be inherent in the position. However the successful candidate will have demonstrated experience with the essential duties described above.

Required skills and experience

The candidate will have a strong geology and geophysics background with course work in structural geology and field geology, and a defined interest in geothermal energy. The candidate should have completed a Bachelor of Science degree in geoscience although consideration will be given to B.Sc. candidates. The ideal candidate would be working on an advanced degree with demonstrated experience and defined interests in detailed field mapping, geologic map-making, and subsurface reservoir characterization.

Demonstrated experience with accurately locating geologic features in the field with GPS equipment as well as photographic imagery, digital geologic map-making, a strong structural geology background, and a thorough and demonstrated mastery of ArcGIS software are required. A working knowledge of geomorphology is desirable. Geophysical map-making is a plus. Demonstrated field experience in the minerals industry is also a plus.

The candidate should be familiar with Microsoft Office software (Word, Excel, Outlook, and PowerPoint). Previous experience with 3D software such as Petrel or SKUA GoCAD is desirable but not required. Knowledge of AutoCAD is also a plus but not required. The intern must hold a valid driver's license, have the ability to drive mountainous roads, and work safely and independently with minimum supervision in steep terrain with hot summer temperatures.

Work environment includes office setting as well as hiking in a rugged field setting with electrical power plants, pipelines, and wells. The ability to work and hike safely in steep, rugged terrain with daytime temperatures reaching 100°F is required.

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