

Position Title

Geysers Chemical Engineering Intern

Position Description

The Geysers is the largest complex of geothermal power plants in the world. Calpine is the largest geothermal power producer in the US and one of the most reliable energy sources in California accounting for one fourth of the green power produced in California. See www.geysers.com for more information regarding Calpine.

Essential Duties and Responsibilities will include some or all of the following:

Assist the Chemistry and Waste department in a variety of chemical process control and monitoring efforts for The Geysers, which may include for example: Evaluating Stretford H₂S abatement process salt minimization strategies; Building a spreadsheet material balance around a geothermal power plant and develop an overall kinetic equation for the H₂S abatement reaction; Design a PID controller to automatically adjust chemical feed rates; Examine Langmuir kinetics for startup of new adsorption systems.

The remainder of unloaded intern time will be utilized in assisting lab personnel in analytical laboratory tasks including field sampling, chemical analyses and data entry.

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.

Required skills and experience

Candidate should have completed coursework in their junior year in engineering science, including chemical engineering coursework in Chemical Process Analysis, Transport Phenomena, and chemistry coursework in General Chemistry with lab, and Quantitative Analysis with lab. Candidate should be familiar with Microsoft Office Tools software (Word, Excel, Outlook, PowerPoint), and ideally will be familiar with Excel programming in VBA. They should also be willing to work as a team member with good writing and communication skills. Intern must hold a valid driver's license, and have the ability to safely drive mountainous roads. The work environment includes office and laboratory settings as well as outdoors in an industrial/power plant setting.

This job will be based at The Geysers power plant near Middletown, California.
Work schedule is 4X10 (Monday – Thursday)

Calpine is an Equal Opportunity/Affirmative Action Employer

URL Link for students to apply:

https://rn11.ultipro.com/CAL1005/jobboard/NewCandidateExt.aspx?_JobID=1853&_jbsrc=