Position Title

Power Ops Intern
Location: Hayward, CA (Calpine Russell City Energy Center)
Job Position: Full Time Paid Internship position for Summer 2015
To Apply: https://rn11.ultipro.com/CAL1005/jobboard/NewCandidateExt.aspx?__JobID=1112&__jbsrc=
About Calpine: www.calpine.com

Position Description

This supervised position will allow for an engineering student interested in the power industry to apply and enhance their knowledge of power plant engineering and operation. This position will normally require the individual to work a standard day shift, but some overtime work (nights and weekends) may be required. This job will be based at Russell City Energy Center (Hayward, CA), but job duties may require travel to other power plants located in the San Francisco Bay Area.

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

1. Assist in the research, planning and execution of short and long term projects for the facility.
2. Assist with equipment performance monitoring and identifying potential areas for improvement.
3. Assist with mechanical and electrical inspections, troubleshooting and maintenance tasks while under direct supervision of a qualified Calpine Employee.
4. Assist with development and implementation of a document control strategy.
5. Assist with maintaining plant cycle chemistry, including maintaining logs and records.
6. Assist in review, development and improvement of plant operating procedures.
7. Assist with equipment research and procurement of replacement parts.
8. Assist with plant Environmental, Health, and Safety (EHS) administrative tasks, including preparing reports for submittal to regulatory agencies under direct supervision of a Calpine employee.
9. Assist with plant operations under direct supervision of a qualified Calpine employee.
10. Assist in maintaining shift operating logs and records when required.
11. Perform other duties as assigned while under the direct supervision of a Calpine employee.
12. This position will normally report to and take day-to-day instruction from the Plant Engineer, but also other employees at the facility as required.

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

- Authorization to work permanently in the U.S. without sponsorship.
- 3.0 GPA in a 4 year engineering program at an accredited institution.
- Must be a current student during time of internship.
- Completion of at least 30 credits towards graduation.
- Willingness to work outdoors, in field locations, in a "hands-on" environment.
- Willingness to adhere to plant safety standards, procedures, and practices.
- Good comprehension of basic engineering practices.
- Good problem solving and analytical ability.
- Strong computer skills, especially in the use of spreadsheet and word processing programs.
- Strong verbal and written communication skills.
- Must be flexible and able to work harmoniously with others in a dynamic environment.
- Must be able to self-start and manage multiple simultaneous tasks and priorities.

Preferred Experience:
- Previous work experience, including internships.
Required skills and experience

- Mechanical or Electrical Engineering student preferred; will consider other engineering and physical science disciplines (e.g. Chemical, Civil, Materials, Physics, etc.) based on candidate background, interest and work experience.
- Strong knowledge of engineering thermodynamics and heat transfer principals.
- Exposure to maintenance, construction, or inspection of large plant facilities (e.g. power generation, oil & gas, refineries, or similar).
- Ability to read and understand construction drawings and P&IDs.
- CAD and/or 3D modeling proficiency.

Calpine is an Equal Opportunity/Affirmative Action Employer