



## Job Description: Sr. Mechanical Engineer

Alternative Titles: n/a

Revised: June 23, 2009

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Business Unit: Engineering

Employee Type: Exempt

Reports To: Mechanical Engineering Manager

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**Purpose:** Provide mechanical design, technical analysis and resolution of engineering problems. Provide direction and coordination of a team of engineers and designers to successfully complete design of large industrial projects in Power, Refining and Petro-Chemical.

**Work Schedule:** 7:30 am – 5:30 pm Monday through Thursday and 8 am – 12:00 pm Friday (minimum).

**Essential Skills** (*may include but are not limited to the ability to*)

- Design systems incorporating pumps, compressors, heat exchangers, tanks, piping, instrumentation and controls into the overall facility design.
- Establish design criteria, prepare procurement specifications, evaluate bids, and manage contracts for heat exchangers, pumps, compressors, heaters, boilers, turbines and water treating equipment.
- Design piping and pipe support systems including material selection, B31.1/B31.1/ASME Section I and Section VIII Code calculations, stress analysis, etc is required. Power plant design experience is desirable.
- Work within company policy as outlined in the Lauren Engineers & Constructors Craft Handbook and in compliment with the LEC Human Resources Policy Manual, LEC Safety Manual and OSHA Safety rules.
- Perform other duties as assigned by the supervisor as needed.

**Essential Qualifications**

- Must possess superior engineering skills and be capable of interacting with all engineering disciplines.
- Must have an advanced knowledge of mechanical engineering and design and be familiar with applicable Codes, standards, and acceptable industry practices.
- Must have excellent communication skills and be capable of interacting with other engineering disciplines, construction project managers, and clients.
- Must have a proven track record of accomplishment as a lead design engineer on industrial projects and be capable of supervising and directing a team of engineers, designers and support personnel.
- 15 years of formal training and experience in heavy industrial design with at least 5 years as a project engineer or group leader. Emphasis on Power is desirable
- Bachelor or Master's degree in Mechanical Engineering from an accredited engineering school.
- Must be licensed as a professional engineer, by exam, in state of residence with the ability to be licensed in multiple states.
- Read, write and communicate using English language sufficient to perform job functions (other preferences will be given for special language skills where there is a business need)

**Physical Requirements**

- Frequently lift objects weighing up to 25 pounds
- Climb stairs
- Sit for long periods of time
- Occasionally stoop, kneel or crouch
- Use hands and arms to reach for, grasp and manipulate objects

**Tool/Personal Protective Equipment Requirements**

- n/a

**Environment:** Work usually takes place in clean, pleasant, and comfortable office settings.

**Employee Review Acknowledgement**

I acknowledge that I have read the Job Description and I understand what would be expected of me. The Company reserves the right to change or reassign job duties or to combine positions at any time. I also understand that I am an at-will employee, and this Job Description does not constitute a contract of employment.

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Candidate/Employee Signature

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Date