

Senior Mechanical Energy Engineer

Date: 12/10/2021

Reports To: Section Manager

Location: Parsippany, NJ

Starting Salary: Starting salary at \$97,000, negotiable based on experience.

Number of positions: 1

Short Description of the Hiring Company:

CHA Consulting, Inc. is an innovative, full-service engineering consulting and construction management firm delivering sustainable, integrated solutions to the world's most challenging infrastructure projects. We are nationally known for our expertise in the identification and delivery of energy efficiency and generation solutions for the commercial, institutional, and industrial sectors. Our team is comprised of industry experts with hands-on experience as facility managers and engineers.

Objective of the Job Title:

CHA Consulting, Inc. is currently seeking a Senior Energy Engineer to join our Power – Generation & Energy group. Working closely with professional engineers, the Senior Energy Engineer assists in the design development, implementation, and technical analysis of various systems to implement new products, or changes to an existing scheme, to suit individual client needs.

Job Responsibilities:

CHA is looking for a Senior Engineer with both energy auditing and mechanical design experience. The design experience is particularly important in allowing the engineer to put together accurate scopes of work and cost estimates for the chosen ECMs in the energy audit. The Senior Engineer will perform energy audits and lead or assist with follow-up design after the energy audits are complete. The Senior Engineer will also at times lead teams of engineers on energy audits and help oversee some of the work being done in our NJ office.

The energy audits may be ASHRAE Level 1, 2, or 3; they may be conducted at educational, laboratory, institutional, commercial, or industrial facilities. Most often, the audits will be ASHRAE Level 3; conceptual design and cost estimates with an accuracy of +/- 20% are typically required to be developed by the engineer. In addition, the Senior Engineer will be part of a design team that implements the audit into a set of drawings issued for construction. The Senior Engineer's reports and calculations will be overseen by the mechanical energy group manager and CHA's Chief Energy Engineer.

Typical energy audit tasks include completing field work on site, performing energy-related calculations, writing reports, and leading results meetings with clients. Calculations are typically done in spreadsheet format, though at times modeling software is used. Commissioning tasks include writing the following documents: commissioning plans, pre-functional checklists, functional checklists, O&M plans, M&V plans, and final reports. It also involves witnessing testing and equipment function on site. M&V may include deploying data loggers and performing extensive data analysis to determine results.

In addition, commissioning, retro-commissioning, and measurement and verification (M&V) may be part of the typical day to day workload.

The Senior Engineer is expected to represent CHA both in doing field work and in client meetings. They must work with facility and maintenance staff to gather the required on-site data information independently. The Senior Engineer is also expected to work on multiple projects simultaneously in a timely and cost-effective manner while meeting client, contractual and company requirements.

Education & Licensure:

- Bachelor's Degree in Engineering required

- Professional Engineer (PE) license required
- Must have a valid US driver's license

Professional Skills/Experience:

- Minimum of 10 years of mechanical / energy engineering professional work experience required.
- Must have experience in performing ASHRAE Level 1, 2, and 3 audits.
- Must have experience with developing design drawings in AutoCAD and/or Revit; including preparing flow diagrams, plans, schedules, details, and specifications.
- Must demonstrate an understanding of implementation and constructability of recommended energy audit ECMs.
- Must have a strong understanding of building HVAC systems, including chilled water, hot water, steam, air handling systems, air terminal devices, building exhaust, and building automation systems and components.
- Must have familiarity with building codes.
- Familiar with QA/QC procedures.
- Must have an understanding of commissioning and M&V.
- Excellent oral and written communication skills required.
- Good interpersonal and leadership skills required.
- Must have strong ability to practically apply engineering knowledge.
- Must have strong ability to work and/or lead in a team environment.
- Prior consulting engineering experience is preferred, but not required.
- eQUEST or EnergyPlus (Trane Trace, etc.) modeling experience is preferred.

CHA takes pride in recruiting, developing and retaining highly talented individuals. In addition to competitive salaries, we offer a comprehensive benefits package and a variety of opportunities for our employees' professional growth and development.

We as an organization celebrate the values of inclusion and equality, and advocate for the full participation of all people in an environment free of discrimination. To support these values, we invite all qualified applicants to be considered for employment regardless of race, color, religion, sex, sexual orientation, gender identity, national origin, citizenship, age, disability, protected veteran status, or any other characteristic protected by law.

Interested? Please click the below link:

[Green Energy Job Postings Interest Form](#) or copy/paste the following link into your browser:

<https://form.jotform.com/203245466535052>