



Senior Mechanical Engineer
Maryland/DC/Northern Virginia

About the organization:

MD Energy is a rapidly growing energy management company that serves some of the area's largest businesses, including real estate owners, restaurants, and manufacturers. We provide consulting services for utilities across the United States, and we are looking for customer centric individuals to join our team.

About the opportunity:

We are seeking a Senior Mechanical Engineer for the Washington DC Metropolitan area. The candidate must have relevant in-depth knowledge of commercial, institutional, hospitality, and manufacturing facilities and their systems with substantial practical experience in reducing a building's energy consumption. Experience with energy audits, commissioning, measurement & verification, ESCO, utility and consulting experience is essential. This position requires significant experience and comfort with energy modeling software such as e-Quest, Trane Trace, IES.

The Senior Mechanical Engineer will work as the lead to redesign existing HVAC systems for energy efficiency. The systems range from small unitary systems for senior living/continuum care facilities to large central plants for commercial office buildings, industrial, or large-scale hospitality projects. The candidate will recreate system functions using available resources from onsite observations and interviews with staff. The Senior Mechanical Engineer will suggest energy conservation measures based on attractive payback periods. The candidate will work directly with assessment team to obtain site info and coordinate with implementation team for construction phase. The candidate will apply for and oversee power utility incentives.

RESPONSIBILITIES:

- Perform onsite assessments of client facilities to identify energy saving opportunities and meet with facilities personnel to ascertain onsite issues
- Analyze existing building systems and collect data on building operation, HVAC, electrical, lighting, and controls to determine energy usage and efficiency
- Develop engineering solutions to address current facility issues and potential energy saving opportunities
- Establish priorities for implementation of capital projects and energy efficiency measures

- Lead and direct the work of engineering team, consult external engineers, and equipment suppliers; coordinate tasks, manage schedules, and ensure deliverables and deadlines are met
- Coordinate with Implementation Team and subcontractors to finalize design and confirm feasibility of installation
- Review and verify energy savings calculations and guide other staff in the best practices for various energy savings technologies, including lighting, HVAC, fans, pumps, air compression, and industrial process use; Complete technical and financial analyses to include ROI assessments
- Plan and deliver presentations at meetings and training events for trade allies and customers, clients, and others
- Perform site-specific engineering analysis and evaluation of energy efficiency projects and programs involving industrial process equipment, such as pumps, fans and compressed air systems, complex central plant systems and advanced HVAC equipment
- Provide expert judgment and analyses for engineering design in order to ensure owner's requirements are fully documented, minimize first cost, improve energy efficiencies, ensure standards are met and coordinate electrical and control requirements
- Write and install energy management routines for building automation systems

QUALIFICATIONS:

- Must have a minimum of 10 years of professional experience in HVAC design and energy modeling; in-depth knowledge of large buildings and their mechanical and electrical systems, particularly HVAC, control systems, lighting and building envelope
- Knowledge of central plant systems and comfort with building plans and specifications
- Familiarity with applicable building codes as necessary
- Practical experience in energy reduction concepts and calculations
- Superlative quantitative analysis abilities
- Ability to present analysis in understandable and compelling formats
- Strong interpersonal, client communications, organizational and planning skills; excellent follow-up and follow through skills is needed
- Team player to inspire and mentor colleagues
- Excellent problem solving skills, with the ability to analyze situations, identify existing or potential problems and recommend solutions
- Sound business ethics, including demonstrated ability to manage and protect proprietary and confidential information
- Ability to work well in a fast-paced and dynamic work environment
- Strong verbal and written communication skills. Effective listening and probing skills
- Must pass a background check and hold a current/valid driver's license and proof of car insurance
- Must be available for nationwide travel at 25%-50% of the time; must have reliable transportation for local travel as well
- Candidate must be legally authorized to work in the US without requiring visa sponsorship for employment at any time

EDUCATION, CERTIFICATIONS & TECHNICAL SKILLS REQUIRED:

- Undergraduate or graduate degrees in a relevant field — Mechanical Engineering; Building Science — or minimum 10 years' practical experience

- PE Certification is required
- Energy modeling applications is required
- Knowledge of energy efficiency and sustainability
- CEM, BEAP, and/or PEM preferred
- LEED AP or CxA a plus

BENEFITS:

MD Energy Advisors offers competitive salaries and benefits. We put a premium on work-life balance, offering flexibility with our remote team. We also offer:

- Medical, dental and vision health insurance
- 401K
- Paid time off and paid holidays
- Wellness Reimbursement
- Professional Development Reimbursement
- Regular team meetings and in-person gatherings

Maryland Energy Advisors is an Equal Opportunity Employer/M/F/Disability/Vet.