Building Performance Analyst

About Us

Joulea is a startup building a software platform that reduces energy costs and consumption in commercial buildings. Today, energy use in commercial buildings within the United States represents 33% of their operating budgets and almost 40% of the entire United States' carbon emissions. We use the aerospace industry's product lifecycle management principles in order to create a novel approach to apply them to commercial real estate. Joulea implements holistic, integrated optimization methods that redefine energy efficiency and reduce operating costs within commercial buildings. We are an ATDC portfolio company backed by wemarathon with offices at ATDC in Midtown Atlanta.

Job Description:

We are seeking a Building Performance Analyst with a robust building science background and strong skills in programming, software, and product development. You will play an integral role in shaping our technology platform and contribute to our vision of redefining energy efficiency in commercial buildings.

Responsibilities

- Develop energy models to recommend energy efficiency measures for maximizing building performance.
- Analyze building envelopes using architectural plans, RGB, Lidar, and IR imagery to optimize thermal performance.
- Utilize expertise in machine learning for a range of systems, processes, and technologies within the product.
- Be actively involved in the strategic direction and product decisions.
- Collaborate with Machine Learning and UAS groups to optimize data collection and processing.

Requirements:

- Self-starter that is comfortable in a rapidly evolving, high-growth environment
- Creative and innovative mindset, with a willingness to try new things
- Proactive communicator and collaborator

- Strong organizational and management skills
- Solid attention to detail and problem-solving skills
- Bias towards strategic analysis and critical thinking
- Team player attitude

Minimum Experience

- Bachelor's Degree, MS, or PhD in Mechanical Engineering, Civil Engineering, Architectural Engineering, Computer Science or related fields.
- 2-5 years of industry experience.
- Strong programming skills, including proficiency in Python.
- Experience in Energy Modeling software (e.g., EnergyPlus, eQuest, OpenStudio).
- Solid understanding of ASHRAE standards and building codes, capable of interpreting and applying them in energy-efficient building designs.

Preferred Experience

- Experience in designing commercial HVAC systems.
- Experience using machine learning for maintenance and diagnosis of mechanical and electrical systems.
- Familiarity with OpenStudio SDK, ComStock, and extracting insights from EnergyPlus simulation outputs using SQL queries.
- Knowledge of navigating and qualifying for 179D tax incentives and understanding the Inflation Reduction Act and its tax benefits.
- Expertise in compliance energy modeling.
- Insight into web application UX strategies for product development.

Benefits

- Competitive Salary
- Equity Compensation
- Full Health, Vision, and Dental Insurance
- Per Diem

Interested in applying? Send your resume to **careers@joulea.com.**
International applicants are welcome if they are currently eligible to work in the US, such as with OPT EAD, CPT, or in H-1B status.