



# ASSOCIATION FOR ENERGY AFFORDABILITY INC.

## JOB POSTING

<u>Job Title:</u>	<b>Energy Research Engineer</b>
<u>Primary Work Location:</u>	Emeryville, California
<u>Supervisor:</u>	Director of West Coast Operations
<u>FLSA Classification:</u>	Exempt
<u>Projected Salary Range:</u>	Competitive; commensurate with experience

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**Overview:** Association for Energy Affordability (AEA) is a rapidly growing nonprofit energy services and training organization dedicated to achieving energy efficiency in buildings in order to foster and maintain affordable and healthy housing and communities. Energy consulting services are completed through AEA's participation in a variety of federal, state, and local energy efficiency and green building initiatives. For more information about AEA, see <http://www.aea.us.org>.

**Position Summary:** AEA West is seeking an Energy Research Engineer to join our tight-knit, talented team of "Energy Geeks". The candidate will perform field research, in-depth data collection and analysis related to high performance, zero carbon buildings. If you are passionate about decarbonizing the built environment, you love data, and you're seeking to learn from an experienced team in a hands-on environment, then this is the perfect opportunity for you.

The Energy Research Engineer engages in federal, state and local government and utility funded research and demonstration projects and engages in building and building system monitoring, measurement and verification, data analysis and visualization, energy modeling and report production as needed to complete a range of research project types. They are expected to be a self-starter, an independent problem solver, and a strong team-player.

**Responsibilities:** The Energy Research Engineer may be responsible for:

- Developing measurement and verification (M&V) plans
- Selecting and costing M&V equipment packages
- Configuring, testing, and deploying monitoring and data collection equipment in the field
- Instituting the use of and/or developing appropriate software tools for data collection and cleaning
- Analyzing and creating visualizations of large data sets for both trending and energy savings calculations purposes
- Manage energy performance analysis including data collection from various software tools and validating performance
- Coordinating with other organizations as a member of research teams to define and implement M&V
- Perform complex research and data analysis on a wide range of topics and share findings
- Performing energy modeling and building simulations

- Working with building owners, architects, and other decision makers to successfully manage advanced technology demonstration projects
- Working with plumbing, mechanical and electrical contractors on site during construction projects to implement M&V installations

These job responsibilities may be revised over time to ensure the functional responsiveness of the Energy Research Engineer to AEA and Federal and California State program requirements.

**Minimum Qualifications:**

- Bachelor’s Degree in engineering, architecture, environmental science, construction management or other sustainability related focus, with a demonstrated interest in energy conservation and building science preferred
- Minimum of two years’ experience in building energy engineering
- Experience working with large datasets and associated data collection, analysis, and visualization tools
- Knowledge of building systems including lighting technologies, building envelope, mechanical systems and combustion science

**Additional Qualifications Desired:**

- Familiarity with Python, including specific experience working with pandas, Plotly, and/or other libraries to perform data analysis and visualization tasks
- Strong background in building science and mechanical/electrical engineering principles related to building systems
- Knowledge and understanding of Title 24 and other building codes
- Sound technical writing skills and experience
- Ability to communicate complex technical information in an accessible manner
- Experience with the use of energy modeling software a plus, i.e., EnergyPro, EnergyPlus, OpenStudio, eQUEST, DOE2 programs
- Proficiency in Microsoft Office Suite (Excel, Word, Outlook, and PowerPoint)

**EEO Non-Discrimination and ADA Reasonable Accommodation Statement:**

Applicants are considered for all positions without regard to race, color, creed, religion, age, national origin, alienage or citizenship status, gender, sexual orientation, gender identity, marital or partnership status, disability, military status, veteran status, or predisposing genetic characteristics. AEA does not discriminate on the basis of physical or mental disability where the essential functions of the job can be reasonably accommodated. Determinations on requests for reasonable accommodation will be made on a case-by-case basis. For more information on the physical requirements of this position and/or if you need reasonable accommodation for any part of the application and hiring process, please notify the agency at 212-279-6733 ext. 8265 or [aberesford@aea.us.org](mailto:aberesford@aea.us.org).

**TO APPLY:** Please submit resume with cover letter, Attn: Amy Beresford, by email: [aberesford@aea.us.org](mailto:aberesford@aea.us.org) or fax: 718-292-1914.

*~ Minorities and women are encouraged to apply ~*

