

Scientific Engineering Associate / Senior Scientific Engineering Associate - 73677
Organization: EE-Environmental Energy Tech

Bringing Science Solution to the World

The Environmental Energy Technologies Division at Lawrence Berkeley National Laboratory has an exciting opportunity for a Scientific Engineering Associate (SEA) who will support Scientists within the Electricity Markets and Policy group and the broader Energy Analysis department by developing a broad array of energy/environmental/economic models and database platforms in order to solve a broad array of challenging technical and policy issues. This positions will be filled at either an Associate or Senior level dependent upon experience. Projects include, but are not limited to:

- Electric utility resource planning and transmission expansion.
- Energy service company (ESCO) industry, market, and project-level trends.

As a Scientific Engineering Associate, you will:

- Working under general direction (limited for a Senior SEA), conduct research in collaboration with technical staff within the Electricity Markets and Policy Group and the broader department:
- Use economic and technical concepts to provide analysis (a Senior SEA will lead analysis) of Energy Service Company (ESCO) industry and market trends.
- Facilitate the design, development, implementation, and management of complex ESCO databases including data collection, design of online database forms and surveys, analysis of database project results (characteristics, costs, savings, and technical performance), report preparation and technical writing, and development of database quality control procedures.
- Conduct research into (and modeling of) electricity sector resource planning and resource assessment, including issues related to coordination and development of remote renewable resources and transmission system investments, comparative analysis of utility resource plans; and analyze treatment and role of emerging supply- and demand-side resources in resource planning.
- Analyze data (a Senior SEA will also manage this analysis), and prepare technical papers for peer-reviewed journals and final reports in fulfillment of contract deliverables.
- Attend professional conference and make presentations on research results for disparate audiences.
- Act as liaison between PI's / Scientists, other LBNL employees, and external contacts.
- A Sr. SEA will train other LBNL employees in cutting-edge tools and methods that are necessary to analyze complex information.

Qualifications:

- Bachelor's Degree in economics, engineering, public policy, statistics, energy, or natural/environmental resources, or equivalent experience, and at least three years of professional experience
- Demonstrated experience in a research environment, in development, management and utilization of electric, engineering, environmental, and/or energy system models.
- Proven ability to work in innovative R&D projects and ability to work effectively with a multidisciplinary team of scientists and technical support staff.
- High GPA in engineering, economics, statistics, and/or econometric courses.
- Strong oral and written communication skills as demonstrated by technical reports and journal articles.
- Outstanding attention to detail and demonstrated ability to learn new skills (e.g., SAS programming)
- Demonstrated ability to use MS Office suite, including MS Excel and MS Access.

Desired:

- Graduate Degree in economics, engineering, public policy, statistics, energy, or natural/environmental resources, and at least five years professional experience (for a Sr. SEA). Understanding of power system engineering and system operations and interest in electricity market and natural resource issues.
- Familiarity with SAS and/or STATA programming language, Visual Basic, and HTML/XML.
- Demonstrated ability to supervise junior staff.

About Us:

The Electricity Markets and Policy group conducts analyses of public interest policy issues associated with electricity markets such as market structure and design, electric system reliability, role of energy efficiency, demand response, renewable energy and distributed generation resources, and retail energy markets. More broadly, the Energy Analysis department generates and interprets information to inform governments and international institutions on important energy/environmental issues to help them formulate optimal policies.

Note: This is a full-time one-year term appointment with the possibility of renewal or conversion to career based upon performance, funding, and continued operational need. This position will be filled as either an Associate or Senior Scientific Engineering Associate dependent upon qualifications.

How to Apply

Apply directly online at <http://bit.ly/LBL73677AERE> and follow the on-line instructions to complete the application process.

Berkeley Lab is an affirmative action/equal opportunity employer committed to the development of a diverse workforce.