Job Title	Junior Building Energy Researcher
PVN ID	VA-2203-004607
Category	Managerial and Professional
Location	OFFICE OF SR. UNIV DEAN FOR ACADEMIC AFFAIRS
Department	CUNY Building Performance Lab
Status	Full Time
Annual Salary	$60,000.00 - $75,000.00
Hour(s) a Week	35
Closing Date	May 03, 2022 (Or Until Filled)

General Description

Organizational Description:

The CUNY Building Performance Lab (CUNY BPL) provides mission-critical support to the Department of Citywide Administrative Services' Division of Energy Management (DEM) and its client agencies for implementing New York City's ambitious climate and clean energy policies. CUNY BPL staff have expertise in a wide range of areas related to building systems, operations and data, and the design and construction process. This includes: energy data analytics (monthly and real-time meter data); building energy modeling (EnergyPlus and others); measurement and verification (IPMVP and ASHRAE protocols); HVAC systems; building controls; data acquisition (via BAS or field equipment); and operational improvements via Pacific Northwest National Lab's Building Re-tuning protocol. The organization works collaboratively with industry professionals, other research institutions, and several of the US DOE's National Labs; and is a participating member of the Center for Building Energy Smart Technologies (BEST), an Industry-University Cooperative Research Center funded by the National Science Foundation (NSF) (https://www.nsf.gov/awardsearch/showAward?AWD_ID=2113874) in city-scale building energy systems and informatics. CUNY BPL also runs an extensive internship program for CUNY students that provides real world experience and hands-on work in each of the organization's program areas.

General Description:

CUNY BPL is hiring an energy engineer to support applied research projects in the Technical Services team. Primary responsibilities will be to undertake various measurement and verification (M&V) efforts for DEM, including the prediction and quantification of energy savings and GHG emissions associated with projects implemented across DEM programs and partner agencies. Projects include developing measurement guidance documents and training materials, providing tools and technical assistance to agency personnel for project planning, taking pre- and post-project measurements, and conducting in-depth energy and building systems analyses.

Other Duties

During their assignments, the person's responsibilities may include the following:

- Develop standardized M&V protocols and procedures for energy conservation measures (ECMs) and sequences of operation (SOOs) related to building automation systems (BAS).
- Develop coaching on M&V concepts and measurement techniques
- Develop and implement measurement plans and conduct analysis for select projects
- Identify and document recommendations for improving program performance.
- Develop and implement various regression and forward modeling techniques for extrapolating short term measurements into annual estimates of energy consumption

Qualifications

The ideal candidate will bring the following education, skills, and experience to this position:

- A bachelors or master's degree in engineering (electrical, energy, facilities, or mechanical), architecture or construction.
- At least one (1) year of experience with the design and construction of energy efficiency retrofit projects in existing buildings.
- Experience with commercial HVAC systems, including both boiler and chiller work; HVAC controls; computerized building automation and energy management systems; variable air volume (VAV) distribution systems; steam and chilled water systems; heating and cooling applications.
- Understanding of building energy systems and energy efficiency technologies.
- Ability to read and interpret mechanical and electrical schematics and drawings.
- Knowledge of energy costs and billing, energy savings calculation methodologies, and emissions calculations methodologies.
- Strong written and verbal communication skills
- Proficiency in Microsoft Office suite required, experience with Rhino, OpenStudio or EnergyPlus desirable.
- Commitment to customer service and demonstrated ability to effectively manage simultaneous projects.