

Job Title	Junior Building Energy Researcher
PVN ID	VA-2207-004940
Category	Managerial and Professional
Location	OFFICE OF SR. UNIV DEAN FOR ACADEMIC AFFAIRS
Department	CUNY Building Performance Lab
Status	Full Time
Annual Salary	\$62,000.00 - \$74,000.00
Hour(s) a Week	35
Closing Date	Oct 04, 2022 (Or Until Filled)

General Description

Organizational Description:

CUNY Building Performance Lab (CUNY BPL) provides mission-critical support to the New York City's 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 Training focuses on improving efficiency and optimizing of building operations through continuing education programs for facility managers, building operators, and energy professionals, internships for CUNY students, and building systems research and development. CUNY BPL staff have expertise in a wide range of areas related to building systems, operations and data, and the design 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, the New York State Energy Research and Development Authority (NYSERDA), 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 a junior energy engineer to support building system and building controls troubleshooting and optimization efforts as well as advanced training activities. Job activities on the Building Re-tuning team are to support Building Operations Research and Training efforts, including some / all of the following:

- Execute troubleshooting and optimization methodologies using Building Automation System (BAS) data

- Support efforts to develop calculators that predict energy savings associated with operational or building controls changes
- Create customized / per session coaching materials with building-specific performance data in support of coaching programs with commercial building operators
- Conduct site visits including building surveys, BAS assessments regarding building system controls conditions, and trend chart creation
- Analyze energy / building system performance data as needed in support of team efforts to develop recommendations for energy optimization

These activities support clients in both the public and private sectors, especially in New York City, though they do sometimes go beyond.

Other Duties

Qualifications

Qualifications:

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

- Some understanding of commercial HVAC systems, including air systems, central heating and cooling plant, air and water distribution systems, sequences of operations, and controls
- Experience with existing building systems in a design and/or commissioning capacity a plus
- Experience with Building Automation Systems a plus
- Ability to read and interpret mechanical and electrical schematics and drawings
- Strong written and verbal communication skills
- Proficiency in Microsoft Office suite and/or Google suite
- Certified Energy Manager (CEM); Certified Building Commissioning Professional (CBCP) or Existing Building Commissioning Professional (EBCP) credentials a plus
- Commitment to customer service
- A bachelor's degree in engineering (mechanical, energy, electrical, facilities), architecture, or construction