Job Title	Energy Data Lab Researcher - Intern
PVN ID	VA-2208-005048
Category	Research
Location	OFFICE OF SR. UNIV DEAN FOR ACADEMIC AFFAIRS
Department	CUNY Building Performance Lab
Status	Part Time
Salary	Depends on qualifications
Hour(s) a Week	16.00-18.00
Closing Date	Oct 25, 2022 (Or Until Filled)

General 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. Including: 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:

The CUNY BPL Energy Data Lab (EDL) team is seeking interns to work on applied research projects in the building energy and efficiency field through June 30, 2023, and possibly through 2024. The EDL was established in 2012 with the goal of studying and documenting NYC Department of Citywide Administrative Services (DCAS) Energy Management projects in City-owned facilities. EDL interns work to create and pilot a variety of data gathering and feedback mechanisms; this position focuses specifically on researching novel methodologies for analyzing energy consumption data in the NYC portfolio. Some tasks may include:

1. Using established code to generate energy models
2. Present analysis results in written reports
3. Develop new data modeling methodologies

4. Provide research support for the Technical Services team (Measurement & Verification)

Other Duties

Work on projects will include literature searches, spreadsheet analysis, energy analysis, data analysis and engineering, data management, data visualization and report writing.

Qualifications

Ideal candidate will be a detail oriented self-starting individual enrolled in a degree program in engineering (electrical, mechanical, environmental), architecture, or building mechanical systems, physics or mathematics, and must be proficient in MS Office, and have some proficiency or interest in, Python, R, Javascript (or other programming language)