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| Job Title | Architectural Draftsperson/Technical Illustratorâ€™ Intern |
| PVN ID | VA-2205-004794 |
| Category | Managerial and Professional |
| Location | OFFICE OF SR. UNIV DEAN FOR ACADEMIC AFFAIRS |

Department

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| Status | Part Time |
| Hourly Rate | \$16.00-\$18.00 |
| Hour(s) a Week | 0.00 |
| Closing Date | Jul 19, 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. 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:

The CUNY BPL Technical Services (TS) 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 TS team supports DEM with pre- and post-retrofit measurements on energy efficiency and carbon reduction projects, with the goal of characterizing project results and improving realization rates. CUNY BPL's TS team also researches best practices and next generation tools and techniques to streamline the measurement and savings prediction process, conducts in-depth analyses, develops guidance documents and training materials, and provides field equipment and technical assistance to agency personnel for project development and execution. This work includes general system measurement and performance evaluation to support planning, implementation, and verification across a wider range of teams and activities at DCAS DEM.

CUNY BPL has been developing protocols and procedures for measurements related to a wide range of mechanical systems in buildings. Examples of first generation documents can be found here: <https://nycenergytools.com/all-guides/measurement-guides/>. These guides are being refined and reformatted, and supplemental imagery and graphics are needed to support this next generation of content.

Other Duties

Work will focus on the development and refinement of detailed 2D and 3D representations of buildings and mechanical systems using Rhino 7 and Adobe Illustrator, animations using Bongo, and translating written documents into webpages using WordPress. Work performed in this position can qualify for NCARB AXP or EIT credits.

Qualifications

Ideal candidates will be enrolled in a degree program in engineering, sustainability, architecture or building energy systems, and be proficient in Rhino or other 3D modeling software, Adobe Suite, Microsoft Office Suite and WordPress.