



Job Title	Energy Systems Engineer
PVN ID	VC-2406-006302
Category	Managerial and Professional
Location	OFFICE OF VC - FACILIT PLAN, CONSTRUC & MGMT
Department	Dept. of Engineering
Status	Full Time
Annual Salary	\$90,000.00 - \$110,000.00
Hour(s) a Week	35
Closing Date	Aug 10, 2024 (Or Until Filled)

General Description

As a member of the Engineering Group in the Office of Facilities Planning, Construction, and Management (FPCM), the Energy Systems Engineer will play a vital role in the successful implementation of the multi-year/multi-billion-dollar design and construction program at CUNY's 25 campuses. With a strong focus on enhancing the campuses' state of good repair and energy efficiency, the Energy Systems Engineer will provide engineering services and support the FPCM project management team on capital projects managed by FPCM, executed through multiple entities including the City University of New York (CUNY), the New York Dormitory Authority (DASNY), the New York State Power Authority (NYPA) and in the case of leased spaces, the managing agents and/or landlords. Under the supervision and guidance of the Director of Engineering with support from the Sustainable CUNY team, the Energy Systems Engineer shall:

- Assess existing facilities and programmatic needs resulting in the identification of the infrastructure required to enhance the state of repair of the targeted facilities, and the development of recommendations on the optimal pathway to implement the associated project(s)
- Develop and review detailed scopes of work to be used in the procurement of architecture and engineering consultant services, ensuring that the scopes of work are in alignment with the energy master plan of the respective campus. The scope of work shall identify the facility needs, potential alternative pathways to meet those needs, the evaluation approach, and deliverables to be created by the Architect/Engineer at each phase of design. Includes development of high-level design and construction schedules and budgetary/Class V cost estimates
- Develop and actively manage energy-focused planning, design, and construction projects across the CUNY portfolio, with a focus on solar, geothermal, battery storage, roofing, heating, and ventilation, building automation systems, and retro-commissioning projects
- Coordinate interdisciplinary reviews and conduct the review of architectural & civil engineering, mechanical engineering, and electrical engineering components of consultant proposals, engineering analyses, scopes of work, design reports, and design documents to ensure that CUNY Design Guidelines and industry best practices are applied and that the projects are constructable within the specialized higher education environment
- Update guidelines and procedures for projects in conformance with applicable codes and regulations

- Prepare civil, mechanical, electrical, and environmental standards and specifications for incorporation into designs, preventative maintenance procedures for building systems to be implemented by the campuses; and tools for monitoring the implementation of such procedures (i.e., Computerized Maintenance Management System)
- Provide project management reports as required by the Director of Engineering
- Advise project management teams on available technologies to achieve programmatic (i.e., decarbonization, automation, preventative maintenance, enhanced state of good repair) and project-specific goals

Other Duties

- Represent the Director of Engineering in conferences and meetings in his absence
- Perform quality assurance site visits during the construction phase and prepare detailed reports
- Conduct research, perform diagnostics, and troubleshoot building systems and equipment within one's area of expertise, including Building Automation Systems, solar, and battery storage
- Support the identification and testing of innovative technologies for incorporation into CUNY projects, with a focus on technologies that will enhance the energy efficiency of CUNY's facilities
- Participate in conferences, events, and networking and learning opportunities, including the development and delivery of technical presentations to CUNY FPCM colleagues on topics in one's area of expertise
- Actively participate in industry organizations such as the American Society of Civil Engineers (ASCE), Leadership in Educational Facilities (APPA) and their associated New York State subsidiaries, including committee participation and development of conference papers and presentations

Qualifications

Minimum Qualifications

- Bachelor of Science or Bachelor of Engineering degree in Civil, Chemical, or Mechanical Engineering
- Minimum of 3 years of experience in the design, analysis, and troubleshooting of building systems in large commercial and residential buildings (>50,000 sq. ft.)
- Experience with New York State and/or New York City design and construction projects
- Experience with Computer Aided Design and proficiency with Microsoft Office software

Preferred Qualifications

- Master of Science or Master of Engineering degree in Civil, Chemical, or Mechanical Engineering
- Experience in higher education facilities preferred; experience with design of energy efficiency upgrade projects including roofing systems, energy efficiency retrofits, and Building Automation Systems
- New York State Professional Engineering license preferred

Core Competencies

- Excellent written and verbal communication
- Ability to work on multiple design and construction projects at one time
- Excellent organization skills and the ability to multi-task

- Ability to work under pressure and to meet multiple deadlines
- Ability to prioritize competing work
- Self and team motivator
- Ability to be a team player
- Ability to set project priorities and adjust implementation strategies
- Ability to work effectively with staff, associates, and internal and external constituents
- Knowledgeable of capital and operating budgets
- Alert, observant, and looking for ways to improve processes
- Out-of-the-box thinker, creative, inventive, and adaptable to situations