



Job Title	Mechanical Engineer
PVN ID	VC-2406-006299
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 Mechanical 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' energy efficiency, the Mechanical Engineer will provide engineering services for all 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. The Mechanical Engineer shall:

- Assess existing facilities and programmatic needs resulting in the identification of the infrastructure needed to enhance the state of repair of the targeted facilities and the optimal pathway to implement
- Use their knowledge of best practices to advise campuses on the incorporation of energy efficiency and decarbonization elements in projects
- Develop detailed scopes of work to be used in the procurement of architecture and engineering consultant services. 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 level cost estimates
- Review engineering analyses, scopes of work, design reports, and design documents to ensure that 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 mechanical Heating, Ventilation, and Air Conditioning (HVAC) standards and specifications for incorporation into designs, preventative maintenance procedures for HVAC/Mechanical Systems to be implemented by the campuses; and tools for monitoring the implementation of such procedures
- Providing 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 Mechanical/HVAC systems and equipment
- 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, networking, and learning opportunities

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 HVAC systems in large commercial and residential buildings (>50,000 sq. ft.)
- 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
- New York State Professional Engineering license
- Experience in higher education facilities
- Familiarity with the design of boilers, chillers, steam, and hot water heating distribution systems
- Familiarity with Building Automation Systems and energy efficiency upgrades
- Experience with New York State and/or New York City design and construction projects

Core Competencies

- Excellent written and verbal communication
- Ability to work on multiple design and construction projects at one time
- Excellent organizational 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 and observant and looking for ways to improve processes
- Out-of-the-box thinker, creative, inventive, and adaptable to situations