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<b>Job Title</b>	Civil and Environmental Engineer
<b>PVN ID</b>	VC-2406-006301
<b>Category</b>	Managerial and Professional
<b>Location</b>	OFFICE OF VC - FACILIT PLAN, CONSTRUC & MGMT
<b>Department</b>	Dept. of Engineering
<b>Status</b>	Full Time
<b>Annual Salary</b>	\$90,000.00 - \$110,000.00
<b>Hour(s) a Week</b>	35
<b>Closing Date</b>	Aug 10, 2024 (Or Until Filled)

## General Description

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As a member of the Engineering Group in the Office of Facilities Planning, Construction, and Management (FPCM), the Civil and Environmental 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 Civil and Environmental 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. Under the supervision and guidance of the Director of Engineering, the Civil and Environmental 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)
- Use their knowledge of leading-edge industry best practices to advise campuses on the incorporation of energy efficiency and decarbonization elements in routine projects and assists in the definition and implementation of larger-scale decarbonization projects such as replacement of the campus power plants with geothermal, heat storage and waste heat systems utilizing heat pumps, battery storage systems and solar
- 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/Class V cost estimates
- Coordinate interdisciplinary reviews and conduct the review of architectural/civil/environmental 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 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

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- 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, roofs, structural components
- 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 (American Society of Civil Engineers (ASCE) and Leadership in Educational Facilities (APPA), including committee participation and development of conference papers and presentations

## Qualifications

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### 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 Computer Aided Design and proficiency with Microsoft Office software
- Understanding of building components and construction
- Knowledge of related legislation, regulations, New York City and New York State codes Board policies, procedures, and collective agreements

### 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 building envelopes including roofing systems, energy efficiency retrofits, and life safety systems including fire alarm and sprinkler systems; familiarity with Building Automation Systems
- 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