



NEW YORK CITY COLLEGE OF TECHNOLOGY

**CITY TECH**

Who We Are



## DEPARTMENT: CONSTRUCTION MANAGEMENT AND CIVIL ENGINEERING TECHNOLOGY

As a member of the **Department of Construction Management and Civil Engineering Technology** you will join a group of students who are part of the **School of Technology and Design** at New York City College of Technology, City University of New York.

**Mission:** To educate our students for careers in the fields of Construction Management and Civil Engineering Technology. Through excellence in teaching and community service, the department promotes opportunities for scholarly, personal, and professional growth. We value and will continue our long tradition of educating non-traditional students of diverse backgrounds for successful entry into the workforce. The department is committed to maintaining a diverse faculty of Professional Engineers, Architects, and Construction Managers, thus enabling our graduates to be well prepared to support the diverse needs of the City of New York.

In the **Civil Engineering Technology Associate Degree program**, our focus is on the fundamental concepts and technical skills required to create a wide range of career paths in the civil engineering profession. We balance practical knowledge with theory and encourage a lifetime of learning and leadership. Students are made aware of their ethical, social, and legal responsibilities as practicing professionals in this people serving profession.

In the **Construction Management Associate Degree program**, we prepare students for success within the professional practice of construction management. This preparation includes an understanding of the design, engineering, business, and technical principles and practices used in the construction industry. As future leaders in the construction industry, students are made aware of their ethical, social, and legal responsibilities as practicing professionals.

In the **Construction Engineering Technology Bachelor Degree program**, students are trained to enter a professional field which requires designing, planning, construction, and management of infrastructure. Construction engineers are a hybrid between civil engineers and construction managers. Coursework focuses on the design as well as the construction management of highways, bridges, airports, railroads, buildings, dams and utilities. This allows our graduates to understand both the design processes as well as the building requirements needed to design and build today's infrastructure, particularly in New York City.

**Students** are provided with important resources such as the materials testing laboratory, surveying instrumentation, fluid mechanics laboratory, soil mechanics



laboratory, steel fabrication laboratory, wood shop, computer labs and tutoring, and will acquire the following skills and aptitudes:

- Construction Management
- Construction Scheduling and Construction Estimating
- Construction Site Management
- Structural Design
- Surveying
- Geotechnical Laboratory
- Hydraulics
- Steel fabrication
- Construction Drawings and Computer Aided Design (CAD)
- Global Information Systems (GIS)
- ACI Certification
- National Society of Professional Surveyors (NSPS) Certification
- Occupational Safety and Health (OSHA) Training

**Students** can join department clubs such as American Society of Civil Engineers (ASCE), Construction Management Association of America (CMAA), American Institute of Steel Construction (AISC), American Concrete Institute (ACI), and Association of General Contractors (AGC), and engage in other opportunities internships, and other [programs](#).

**Faculty in the Construction Management and Civil Engineering Technology** have an interest in various research areas:

Geotechnical engineering, foundation engineering, STEM outreach programs and STEM educational programs: Professor Melanie Villatoro, Chair

Structural engineering: Professor Nahvid Allahverd

Geotechnical engineering, transparent soils, urban roof farms, sustainability, geotechnical instrumentation, and laboratory based research: Professor Ivan Guzman

Remote sensing and insitu observations, earth, environmental, and Hydro-climate studies, Geospatial Analysis, and land surface characterization using satellite observations: Professor Hamid Norouzi

Sustainability, resilience, post-disaster rebuilding (PDR) and Historical Building Information Modeling (HBIM): Professor Anne Marie Sowder



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Design and construction of wood frame residential housing, construction management, construction drawings, and building code issues: Professor Sigurd Stegmaier

### **Fun Facts**

Advice from current students and faculty:

- ✓ “Do not procrastinate with your homework/projects and become familiar with the tutoring locations. Find out about programs such as ASAP/STEM to help with financial relief and apply for as many scholarships as you can. Step out of your boundaries and attend club events to learn about topics outside of class and broaden your social network. Set up LinkedIn as you start your journey in college and connect with professionals you meet along the way.” -Faiza Naz, BTECH student
- ✓ “Talk to your peers in your earlier CMCE classes because they will be the same people who you will be taking later classes with you and the more people you know the more help you can get if you need it, i.e., build your network. Also I would recommend getting in touch with a professor who is doing research already or applying for one of the other research study options because it is a great opportunity for learning.” – Alex Mastalerz, BTECH student
- ✓ “Your failures will define your success and humility, and Always think about the future then you would not step back from your goal” – Tasnia Hossain, BTECH students
- ✓ “Keep your GPA as high as possible” – Professor Stegmaier
- ✓ “Read your email and stay involved.” – Professor Guzman
- ✓ “Time Management is Key; create a calendar for yourself and balance school, work, and family.” – Professor Allahverdi