



DEPARTMENT: MECHANICAL ENGINEERING TECHNOLOGY

As a member of the **Department of Mechanical 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: Students in the Mechanical Engineering Technology program gain skills in machine design, solids modeling, applied mechanics and production methods and rapid prototyping. A balanced curriculum provides the ideal mix of the scientific and mathematical principles upon which mechanical design is based with hands-on experience in our well-equipped labs.

Students in the Department of Mechanical Engineering Technology are provided with important resources, including:

- machine shop laboratory
- CNC machining laboratory
- destructive testing laboratory
- non-destructive laboratory
- heat treating and mold pouring laboratory
- micro-analysis laboratory
- testing hardware and various cutting-edge engineering software
- three high tech computer labs, and
- club room with new computers.

Other resources include:

- Small classes for concentration courses to give you a great experience to interact with the instructors of classes.
(<http://www.citytech.cuny.edu/mechanical/course-listing.aspx>)
- Modern laboratory equipment, tools, and software to let you practice cutting-edge techniques. (<http://www.citytech.cuny.edu/mechanical/student-resources.aspx>)
- Easy access to professional advice from faculty to help you to make smart choices during the program (<http://www.citytech.cuny.edu/advisement/>)
- Peer advisors to enhance personal skills and knowledge
- Students' research scholarship to support practical projects and research (<http://www.citytech.cuny.edu/research/>)
- Research under the faculties' supervision in different laboratories to provide extra opportunities for practice.



Students acquire the following skills and aptitudes:

- an ability to select and apply the knowledge, techniques, skills, and modern tools of Mechanical Engineering to broadly-defined engineering technology activities;
- an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies;
- an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes;
- an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives;
- an ability to function effectively as a member or leader on a technical team;
- an ability to identify, analyze, and solve broadly-defined engineering technology problems;
- an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature;
- an understanding of the need for and an ability to engage in self-directed continuing professional development;
- an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity;
- a knowledge of the impact of engineering technology solutions in a societal and global context; and
- a commitment to quality, timeliness, and continuous improvement.

Students in the Mechanical Engineering Technology major can join department clubs to give you chances to develop personal interests, widen your horizon of knowledge, and apply the theories into practice. Clubs include: Drone's Club (President: Ike Mor), Foundry Club, Maker Club, Mechatronics Club, VR&AI Club,

Students can engage in other opportunities including:

- Participate in the intern opportunities in government, institute, industrial or academic areas (for example at NASA and New York University),
- Conduct research under faculty supervision in different laboratories,
- work with peer advisors to enhance personal skills and knowledge,
- engage with the Co-op program that provides flexibility to alternate academic study with full-time employment, and
- enter competitions and exhibitions.

Options for Employment and Further Study

The graduates of the Mechanical Engineering Technology department are employed by various companies (such as ABB, Siemens, Samsung, Atlantic Group), government



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Who We Are



institutes (for example, NASA, MAT, NYS Dept. of Environmental Conservation) and accepted by graduate schools (such as Massachusetts Institute of Technology (MIT), New York University, SIT, SUNY Buffalo, SUNY Stony Brook, City College of New York).

Faculty in the Department of Mechanical Engineering Technology have an interest in various research areas:

Materials: Dr. Gaffar Gailani, Dr. AKM Rahman, Dr. Ozlem Yasar

Manufacturing: Dr. Sidi Berri, Dr. Gaffar Galani, Dr. Angran Xiao

Mechanical design: Dr. Malek Brahim, Dr. Zhou Zhang

Mechanics: Dr. Brahim, Dr. Andy Zhang

Industrial design: Dr. Sidi Berri, Dr. Angran Xiao

Robotics: Dr. Andy Zhang, Dr. Zhou Zhang

Fun Facts

- ✓ Intern opportunities in government, institute, industrial or academic areas prepare you for future challenges (see: <http://www.citytech.cuny.edu/mechanical/news-events.aspx>)
- ✓ Knowledgeable, considerate, and patient professors support your efforts to succeed in both the academic and industrial areas (<http://www.citytech.cuny.edu/mechanical/faculty.aspx>)
- ✓ The Co-op program provides flexibility to alternate academic study with full-time employment, gaining practical experience in your field of study
- ✓ Competitions and exhibitions establish your confidence, show your achievements and prepare for the future job market.