Shape the Future at Ying Wu College of Computing

The Ying Wu College of Computing (YWCC) is an integral part of New Jersey Institute of Technology (NJIT), one of the leading comprehensive universities in the northeastern United States. The College offers a wide range of degree programs in the fields of computer science, data science, information systems, cybersecurity, and other related disciplines. Its mission is to prepare students for exciting careers in the technology industry and to engage in research that contributes to the advancement of knowledge.

At YWCC, we have three departments with one shared vision:

- Department of Computer Science
- Department of Data Science
- Department of Informatics

The Department of Computer Science

The Department of Computer Science offers undergraduate and graduate programs in a broad range of computing and information technology fields. Students can pursue a Bachelor of Science (B.S.) degree in Computer Science, Information Technology, Human-Computer Interaction, Web and Information Systems, or a Master of Science (M.S.) degree in Computer Science, Data Science, and Computer Science for Business. The department also offers a Doctor of Philosophy (Ph.D.) program in Computer Science.

The Department of Data Science

The Department of Data Science focuses on the study and practice of applying computational methods to extract insights from data. The M.S. in Data Science program provides students with a comprehensive understanding of data science, including data analysis, statistical methods, and machine learning algorithms. Graduates are prepared for careers in data science, data engineering, and data product management.

The Department of Informatics

The Department of Informatics emphasizes the development of human-computer interaction and information systems. The M.S. in Information Systems program equips students with the skills to design, develop, and manage information systems. Students can also pursue a Ph.D. in Informatics with a focus on computer science or information systems.

Access to Opportunity

At YWCC, we offer undergraduate and graduate-level programs in a broad range of computing and information technology fields. NJIT@JerseyCity offers working professionals the opportunity to upgrade their skills and advance their careers through part-time programs. The college is located in the heart of Jersey City, home to the world's financial hub and thousands of tech companies.

Ying Wu College of Computing (YWCC) at NJIT prepares students for exciting careers in the technology industry and engages in research that contributes to the advancement of knowledge.

Research

YWCC researchers make much of the software developed in their projects available to the public. Much of the research activity at YWCC is supported through competitive grants awarded to student teams or faculty. Many of the projects are funded by corporate sponsors and government agencies. Research is an extensive and fundamental part of the college’s activities. Our team of faculty and Ph.D. student researchers has grown significantly in the last decade. As experts in the fields of computer science, data science, artificial intelligence, cybersecurity, cloud computing, and computer networking, faculty and Ph.D. student researchers have attracted funding from a variety of sources.

At a Glance

- NYFWCity:
  - 1,100+ students
  - 1,100+ faculty
  - 1,100+ courses
  - 1,100+ research projects
  - 1,100+ collaborations

- Graduate Study
  - 30+ graduate programs
  - 30+ full-time Ph.D. students
  - 30+ part-time students

- NIT@JerseyCity
  - 30+ part-time programs
  - 30+ students

- Degrees & Certificates
  - 30+ undergraduate degrees
  - 30+ graduate degrees
  - 30+ certificates

- NJIT@JerseyCity
  - 30+ degree programs
  - 30+ students

- Attracting international talent and innovation, NIT@JerseyCity is a hub of diverse ideas and partnerships.
Industry Connections
YWCC students can take advantage of our extensive corporate network for career opportunities and valuable professional development. Whether it is through Corporate Connections events designed to forge and foster professional relationships outside the classroom, membership in our Capstone Program, or mentorship programs, networking events, tech talks, and community outreach activities, we provide a platform for students to develop essential skills — important strengths both inside and outside of the classroom.

The Co-op Program

The Co-op Program connects students with the most sought-after companies in high demand, as well as in engineering and technology, giving them the opportunity to gain real-world experience while completing their degree. The program is available in both full and part-time options and allows students to work as a paid employee at a company while earning academic credits that count toward their degree. Many recent co-op participants have launched their post-graduation careers at the same company where they spent their co-op experience.

The industry-sponsored Capstone program is a project-based learning experience where interdisciplinary teams of students work together over the course of a semester to solve a real-world technological problem. The program provides the students an opportunity to apply the knowledge and tools acquired during their studies to real-world situations and develop a deeper understanding of their field. It is not uncommon for a co-op student to be invited back by a company to continue their work, either through another co-op opportunity or through permanent employment upon graduation. Many co-op students report that their co-op experience has been the best choice they made. Now, some former students are applying to be software engineers themselves.

To become leaders in the technology-dependent economy of the 21st century, at NJIT, students need a high-quality, relevant academic program that provides our students the edge they need to succeed. NJIT New Jersey Institute of Technology has earned national prominence by developing engineers and scientists who are at the top of their fields. As one of the nation’s leading public polytechnic universities in Science, Technology, Engineering and Mathematics (STEM) education, as well as business, architecture and design, NJIT is a place for me to learn and to grow. The computer science curriculum helped me develop software systems. Not only did I learn all the essentials of web design and information systems, but the professors really pushed me to do my best. My experience at NJIT was extremely rewarding. I truly enjoyed the teaching approach at NJIT. Professor Suresh Kumar’s ‘road to entrepreneurship’ class was phenomenal – a place to learn, to ask questions, and to understand the business world. Not only did I learn all the essentials of web design and information systems, but the professors really pushed me to do my best. My experience at NJIT was extremely rewarding. I truly enjoyed the teaching approach at NJIT. Professor Suresh Kumar’s ‘road to entrepreneurship’ class was phenomenal – a place to learn, to ask questions, and to understand the business world.

The ACM Student Chapter

The Association for Computing Machinery (ACM) is the world’s largest educational and professional organization for computing professionals, their students and educators, researchers, and employers. Our more than one million members in 200 countries worldwide form a global learning community of knowledgeable problem-solvers, innovators, and leaders who invent the future. As an ACM student chapter, we provide students with opportunities to develop leadership skills, learn about different areas of computing, and participate in extracurricular activities. ACM membership provides a variety of benefits, including access to resources, discounts, and opportunities to network with other students and professionals in the field. It is the best choice I made. Now, some former students are applying to be software engineers themselves.

The NJIT Difference

In the fast-paced world of computing, programs are ever-changing. Technology, engineering, and sustainability are becoming more intertwined as we look to the future for solutions. Capstone enables industry sponsors to explore new technologies and solutions and partners with our students to bring these projects to life. Industry Connections is the platform for our students to take advantage of our extensive corporate network for career opportunities and valuable professional development.

The NJIT Difference

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The MJIT Difference

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