Welcome to NJIT!

We are one of the nation’s leading public polytechnic universities and a top-tier research institution. With an enrollment of more than 11,000 undergraduate and graduate students, we offer small-campus intimacy with the resources of a major public research university. NJIT is a global leader in such fields as solar research, multimedia databases, big data, vehicular networking, medical informatics, bioinformatics, information systems and cybersecurity, among others. We rank fifth among U.S. polytechnic universities in research expenditures, topping $100 million, and are among the top one percent of public colleges and universities for return on educational investment, according to PayScale.com.

NJIT occupies a 45-acre campus in the University Heights section of downtown Newark along with Rutgers – The State University Newark Campus, Rutgers Medical School and Essex County College. NJIT is located 20 minutes from New York City.

Academic Environment

Our student organizations are active in our Computer Science department, making your student experience richer and more rewarding. These organizations include a student chapter of the Association for Computing Machinery (ACM), a women’s student chapter of ACM, an NJIT chapter of the Women in Computing Society (WICS), as well as an association of Computer Science graduate students (DeepCS) and an institute-wide association of graduate students. Together, these organizations are responsible for funding student travel to conferences, organizing on-campus professional events (such as seminars, workshops, contests) as well as off-campus corporate visits and networking events.

Professional Environment

Located in Northern New Jersey, within the greater New York Metropolitan area, NJIT is part of a vibrant ecosystem of high technology players including major pharmaceutical companies (e.g., Pfizer), telecommunication companies (e.g., Avaya Labs), Wall Street companies (e.g., Deutsche Bank, Bloomberg, Goldman Sachs), corporate research centers (e.g., Panasonic, Siemens, NEC) and federal agencies (e.g., the Federal Aviation Administration in Atlantic City). This offers our graduates and students excellent opportunities for internships, entrepreneurship, and employment.
of entertainment including concerts, sporting events and shows.

ranging from Broadway in Manhattan, to the Jersey Shore, to the Atlantic City Boardwalk.

the wealthiest states in the nation (by median income) and one of the most densely popu-

lated. New Jersey offers a superior quality of life and a wide variety of entertainment options, ranging from Broadway in Manhattan, to the Jersey Shore, to the Atlantic City Boardwalk.

Innovations State

Officially referred to as the Garden State, New Jersey is also known as the Garden of Innovations State, in reference to its ongoing role as a leader in high technology. As one of

• Faculty members in academic institutions in the United States and abroad

Our Ph.D. graduates are among the best and the brightest:

• Data Science

• Biomedical Terminologies

• Medical Informatics

• Computational Biology

• Linked Data and the Semantic Web

• Information Retrieval and Keyword Search over High Dimension Spaces

• Multimedia Databases and Multimedia Retrieval

• rdB Technologies

• Biometric Security - C. Borcea, X. Ding, A. Sohn, C.Q. Wu,

• Distributed Systems and Parallel Computing - C. Borcea, Z. Ding, A. Sohn, C.Q. Wu, G. Wang

• Cloud Computing - C. Borcea, A. Sohn, X. Ding, R. Curtmola

• Linus Kernel

• A. Sohe

• Web and Open Source Development / J. High

American Artificial Intelligence

Pattern Recognition and Machine Learning - C.J. Liu, Usman Roshan, F.Y. Shih, Z. Wei

Computer Vision and Multimedia Analysis - C.J. Liu, F.Y. Shih, C.Q. Wu

Big Data Analytics

• Big Data Analytics and Data Mining - U. Roshan, D. Theodoratos, Y. Oria, J. Wang, Z. Wei, C.Q. Wu

• Data Science - C.J. Liu, U. Roshan, F.Y. Shih, Z. Wei

Cybersecurity

• Applied Cryptography - R. Curtmola, R. Kolhef


Mobile Computing

• Smartphone Applications - J. Noistu, G. Wang, C. Borcea

• Mobile Computing and Sensing - C. Borcea, G. Wang, A. Curtmola

• Mobile Health

Networks

• Vehicular, Ad Hoc, and Sensor Networks - C. Borcea, G. Wang, C.Q. Wu

• Green Computing and Networking - C.Q. Wu

Our RESEARCH PARTNERS

• Academia

- C.J. Liu
- CUNY College of Staten Island
- Georgia Tech
- Montclair State University
- New Jersey Art State University
- Rutgers University
- Stanford University
- USC-Riverside
- UC-San Diego
- University of North Carolina at Charlotte
- University of Pennsylvania
- University of Southern California
- University of South Florida

- Chinese Academy of Science
- Beijing, China
- National Tsing Hua University, Taiwan
- National Institute of Informatics
- Tokyo, Japan
- Tsing Hua University, China
- University of Birmingham, UK
- University of Electronic Science and Technology of China, Chengdu
- University of Paris Dauphine, France
- University of Verona, France
- Zhejiang University, China

- Industry

• Cascade Optronics
• Advanced Ching Energy
• Applied Communication Sciences

• Biomedical and Health Informatics

• Quality Assurance and Summarization of Biomedical Data

• GPU and Machine Learning Solutions to Problems in Genomics and Data Science

• Sentiment Analysis for Social Media Data

• Building Personal Moving Trajectory Profile and Predicting Routes

• Intelligent and Distributed Interaction Management

• Secure Software Supply Chain Logistics - R. Curtmola

• Auditing Families of Medical Terminologies - A. Gerbessiotis

• Securing Software Supply Chain Logistics - R. Curtmola, J. Geller, V. Oria

• iSECURE: Integrating Learning Resources for Information Security Science and Education - R. Curtmola, J. Geller, Y. Shih

• Multi-core Modeling - A. Gerbessiotis

• Parallel and Multicore Algorithm Design and Experimentation - A. Gerbessiotis

• Describing Hadoop MapReduce Algorithms for Big Data Analysis in the Cloud - J. Wang

• Sentiment Analysis for Social Media Data - Z. Wei

• Change Point Models with Application to Online Advertising - Z. Wei

• Statistical Methods for Analysis of Big Data - Z. Wei

• GPU and Multi-core Machine Learning Solutions to Problems in Genomics and Data Science - U. Roshan

• Quality Assurance and Summarization of Biomedical Data - R. Curtmola

• Data Science - A. Sohn

• Kernel-Level Virtual Machine Migration - A. Sohe