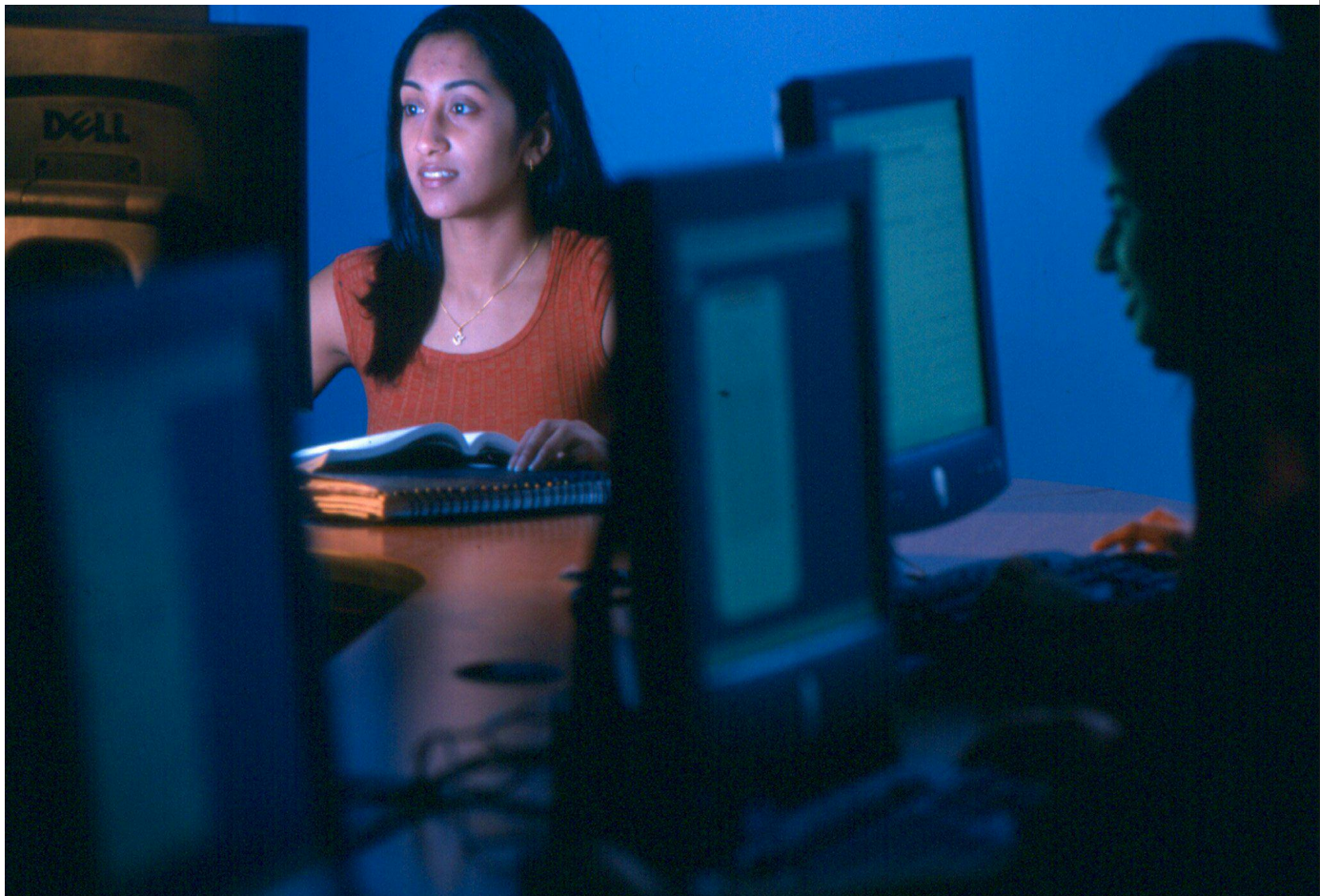


NJIT

New Jersey's Science &
Technology University

THE EDGE IN KNOWLEDGE

Master of Science Program in Computer Science



Department of Computer Science
College of Computing Sciences

New Jersey Institute of Technology

WHY PURSUE A MASTER'S DEGREE IN COMPUTER SCIENCE?

Careers in computing are projected to be among the fastest growing professions through 2012. Because computer technology is embedded in so many products, services, and systems, computer scientists are needed in almost every industry. New opportunities develop rapidly as each change or improvement in technology engenders new areas of specialization. Professionals holding a Master's Degree in Computer Science are on the cutting edge in their field and have a competitive advantage in the market place.

WHY STUDY COMPUTER SCIENCE AT NJIT?

NJIT also has a long history of innovation in on-line communications. With one of the most computing intensive campuses in the world, NJIT has pioneered in the applications of new technologies as learning tools. The university educates one of the largest groups of information technology students in the nation. Not coincidentally, New Jersey is one of the leading states for computing and high technology businesses. Thirty of the nation's fastest growing technology companies are based in the state, and New Jersey ranks 7th in the nation as a cyberstate and 8th for venture capital investment – \$3.5 billion – in information technology and software. New Jersey offers the second highest wages in the nation for technology workers.

WHO TEACHES THE COURSES?

NJIT's Department of Computer Science consists of well-known and distinguished faculty actively engaged in research in areas such as software, networking, databases, software engineering, mobile computing, algorithms, computer architecture, imaging, computer vision, and bioinformatics.

WHAT COMPUTING RESOURCES ARE AVAILABLE?

The computer and information science department maintains and offers computing facilities for its students, faculty, and staff. The computing facilities include research laboratories housing research in areas of computer science such as: networking, real-time systems, hypermedia, parallel processing, and collaborative systems. Users have access to the state-of-the-art software and hardware including Oracle database, UNIX-based workstations and Microsoft Windows PCs supported by several file and compute servers. Internet access, departmental intranets, and conferencing systems provide an integrated infrastructure for supporting teaching and research.

ADMISSION REQUIREMENTS

Applicants with undergraduate degrees in Computer Science or related areas are usually sufficiently prepared for entry. Applicants with undergraduate degrees in areas other than computer science may be required to complete bridge courses in preparation for their graduate studies. A GPA of 3.0 on a 4.0 scale is required. Students not satisfying the regular admission requirements will be considered for conditional admission on a case-by-case basis.

AREAS OF SPECIALIZATION

- Computer Networking and Security
- Databases and Data Mining
- Image Processing and Pattern Recognition
- Algorithms
- BioInformatics
- Software Engineering

DEGREE REQUIREMENTS

- Course Only Option: 33 credits of coursework
- Course + Project Option: 27 credits of coursework + 3 credits project
- Course + Thesis Option: 24 credits of coursework + 6 credits thesis

WHAT CAN YOU DO WITH THIS DEGREE?

- Design and develop, analyze and implement computing systems and software systems.
- Design and develop, analyze and implement network security systems.
- Design, analyze and implement computer algorithms to solve multi-faceted computing problems.
- Work with operating systems, databases, firewalls and web servers.
- Write programs for computer gaming, mobile computing, and wireless systems.

EXAMPLES OF SOME KIND OF JOBS YOU CAN GET WITH THIS MS DEGREE

- Computer Scientist
- Software Engineer
- Network Designer
- Database Designer
- Systems Analyst

IS FINANCIAL AID AVAILABLE?

Financial support may be available for qualified full-time students and might include: the Provost's Fellowship; a research assistantship; loans and work-study; cooperative education industry positions; and curricular practical training. A number of financial support options are available for targeted groups. These include Minority Academic Career (MAC) Fellowships and National Consortium for Graduate Degrees for Minorities in Engineering and Science (GEM) Fellowships. For further information on financial assistance programs, visit http://www.njit.edu/admissions/graduate/financial_support.php

FOR FURTHER INFORMATION, CONTACT:

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TO APPLY:

Office of Graduate Admissions
(973) 596-3300 or on-line at
http://www.njit.edu/admissions/graduate/apply_online.php