

III. Other Institutional Information

III.A. Number of Collaborative Academic Programs

Collaborative Academic Programs

Joint Programs

- Rutgers - The State University, Newark Campus
- University of Medicine and Dentistry of New Jersey (UMDNJ)

Joint programs with Rutgers - The State University, Newark Campus include:

- Applied Mathematics (B.A.) 270301
- Applied Physics (B.S.) 400899
- Biology (B.A.) 260101
- Biology (B.S.) 260101
- Computer Science (B.A.) 110101
- Environmental Science (B.S.) 030102
- Geoscience Engineering (B.S.) 141601
- History (B.A.) 450801
- Human Computer Interaction (B.S.)
- Information Systems (B.A.) 110401
- Science, Technology, and Society (B.A.) 301501
- Applied Physics (M.S.) 400899
- Biology (M.S.) 260101
- Computational Biology (M.S.)
- Environmental Science (M.S.) 030102
- History (M.A.T.) 131328
- History (M.A.) 450801
- Public Health (M.P.H.) 512201
- Applied Physics (Ph.D.) 400899
- Biology (Ph.D.) 260101
- Environmental Science (Ph.D.) 030102
- Mathematical Sciences (Ph.D.) 270101
- Public Health (M.P.H.)
- Urban Systems (Ph.D.)

Joint programs with the University of Medicine and Dentistry of New Jersey include:

- Nursing (B.S.N.)³ 511608 (Mt. Laurel Campus only)
- Biomedical Informatics (M.S.) 119999 (will be solely UMDNJ after 12/06)
- Nursing (M.S.N., Nursing Informatics Track only)

- Public Health (*M.P.H.*) 512201
- Biomedical Engineering (Ph.D.) 104501
- Biomedical Informatics (Ph.D.) 119999 (will be solely UMDNJ after 12/08)
- Urban Systems (Ph.D.) 459999

Joint Research Programs – Centered at NJIT

- Center for Solar Research (NJIT, Cal. Tech.)
- Hazardous Substance Management Research Center (NJIT, UMDNJ, Rutgers, Princeton, Stevens)
- Microelectronics Research Center (NJIT, Rutgers, Columbia)
- Multi-Lifecycle Engineering Research Center (NJIT, Rutgers, Princeton, Stevens)
- National Center for Transportation and Industrial Productivity (NJIT, Rutgers)
- New Jersey Program for Engineered Particulates (NJIT, Princeton, Rutgers)
- New Jersey Center for Micro-Flow Control (NJIT, Princeton)
- New Jersey Center for Multimedia Research (NJIT, Princeton)
- New Jersey Center for Transportation Information and Decision Engineering (NJIT, Princeton)
- New Jersey Center for Internet Security (NJIT, Princeton, Stevens)
- New Jersey Center for Wireless Telecommunications (NJIT, Rutgers, Princeton, Stevens)
- New Jersey MEMS Initiative: From Concept to Commercialization (NJIT, Rutgers, Columbia)
- Northeast Hazardous Substance Research Center (NJIT, UMDNJ, Rutgers, Princeton, Stevens, Tufts, MIT)
- Polymer Engineering Center (NJIT, Stevens)

Research Partnerships Centered at Other Institutions

- Center for Airborne Organics (MIT, NJIT, Cal. Tech.)
- Center for Applied Genomics (NJIT, UMDNJ)
- Center for Embedded System-On-a-Chip Design (Princeton, Rutgers, NJIT)
- Center for Ultra-fast Laser Applications (Princeton, Rutgers, NJIT, UMDNJ)
- New Jersey Center for Biomaterials and Medical Devices (Rutgers, UMDNJ, Princeton, NJIT)
- Collaborative Telemedicine Environments (Rutgers, NJIT, UMDNJ)
- New Jersey Center for Optoelectronics (Princeton, NJIT)
- New Jersey Center for Pervasive Computing (Princeton, NJIT, Rutgers)
- Particle Processing Research Center (Rutgers, NJIT)
- Phytoremediation of Dredge Spoils Using Living Plants/Associated Microorganisms (Rutgers, NJIT)
- Software Engineering for Distributed Computing and Networking (Stevens, Rutgers, NJIT)

NJIT's articulation arrangements

NJIT currently has articulation arrangements with the following 18 institutions:

- Bergen Community College
- Brookdale Community College
- Burlington County College
- Camden County College
- County College of Morris
- Cumberland County College
- Essex County College
- Hudson County Community College
- Mercer County College
- Middlesex County College
- Ocean County College
- Passaic County Community College
- Raritan Valley County College
- Union County College
- Lincoln University of Pennsylvania
- Seton Hall University
- Stockton State College
- William Peterson University

III.B. Number of Collaborative Student Service and Administrative Programs*Collaborative Student Service and Administrative Programs*

- South Jersey Economic Development Network (NJIT, Burlington, Cumberland, Georgian Court, Ocean, Salem, UMDNJ)
- Council for Higher Education in Newark (NJIT, Rutgers-Newark, Essex, UMDNJ)
- University Heights Science Park (NJIT, Rutgers-Newark, UMDNJ)
- Cross registration of courses (NJIT, Rutgers-Newark, Essex, UMDNJ)
- Joint student cultural events (NJIT, Rutgers-Newark)
- Joint shuttle bus service (NJIT, Rutgers-Newark)
- Joint library privileges and interlibrary loan arrangements (NJIT, Rutgers-Newark)
- Coordination of security and public safety programs (NJIT, Rutgers-Newark)
- Federated Department of History (NJIT, Rutgers-Newark)
- Federated Department of Physics (NJIT, Rutgers-Newark)
- Southern CIM Consortium (NJIT, Camden + 5 additional county colleges)
- Northern/Central Advanced Technology Consortium
- Joint admissions programs (NJIT, Bergen, Burlington, Essex, Hudson, Mercer, Middlesex, Ocean, Union) Cooperative agreement on B.S. in Engineering Science/M.D. or D.M.D. sequence (NJIT, UMDNJ)

- Articulation agreements (NJIT, 18 county colleges)
- Sharing of facilities: extension sites (NJIT, Bergen, Drew, Mercer, Paterson, Ramapo, Raritan)
- Energy Conservation Committee (NJIT, Rutgers-Newark)
- Joint street cleaning program (NJIT, Rutgers-Newark)
- Consortium for Pre-College Education in Newark (NJIT, Rutgers-Newark, UMDNJ)
- Communiversity
- New Jersey Higher Education Network

III.C. The Process for Assessing Outcomes for Graduates

NJIT assesses outcomes for graduates through a program that includes multiple measures and surveys. Most programs of the college include exit examinations and projects completed in capstone courses. In addition, all graduates have the opportunity to participate in the survey program conducted by the Office of Institutional Research and Planning. In order to help in assessing outcomes for graduates, the program surveys graduating students, alumni, and employers of NJIT graduates. General results from the surveys include the Graduating Student Survey, and Alumni Survey.

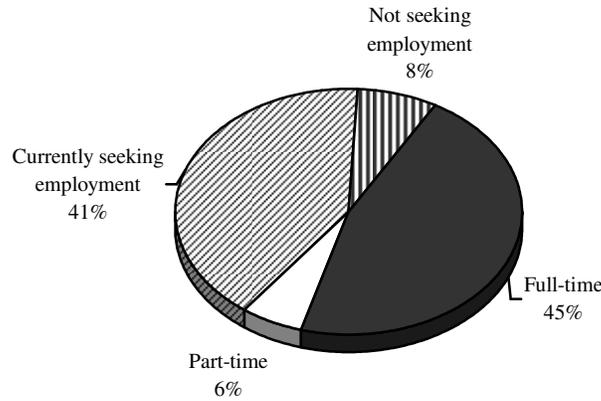
III.C.1. Graduating Student Survey

The Graduating Student survey was redesigned in Fall 2007 to improve its assessment effectiveness in its delivery via the web. The survey instrument consists of scaled items relating to achievement of goals, self-assessment of acquired skills and knowledge, and items evaluating academic programs and student services. Graduates were also asked to describe current employment and educational plans. Response rates soared from 11% (mail survey) to over 60 percent (web survey). Delivery via the web also greatly increased the participation of students who graduated with advanced degrees (i.e. Masters, Ph.D.). All students who graduated were invited by email to participate in the survey and follow up reminder emails were sent.

On a five point scale (5=high, 1=low), both undergraduate and graduate graduates rated NJIT highly. Undergraduates rated all goals and knowledge and skills items above a mean of 3.50 and all education and services above a mean of 3.05. Eighty percent of all undergraduate and graduate students would recommend NJIT to a friend.

Compared to last year, the job market improved for both undergraduate and graduates. Forty-five of undergraduate graduates reported full-time employment, 7% rise from Spring 2005.

Undergraduate Employment Status at Graduation



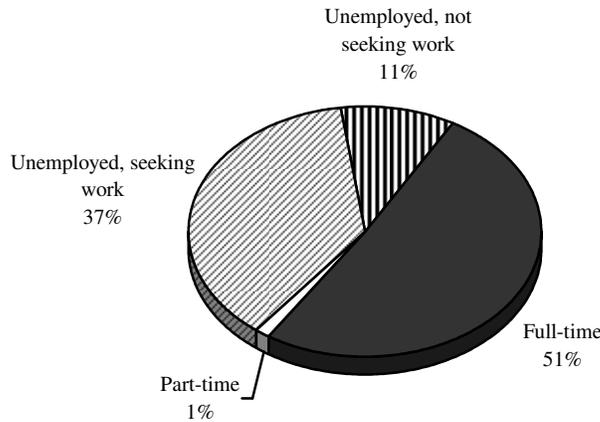
The percentage of undergraduates making \$70,000 and above more than doubled (6% in 2005 to 15% in 2008).

	2006 Undergraduate Graduates (<i>n = 188</i>)
Under \$30,000	10%
\$30,001 to \$35,000	6%
\$35,001 to \$40,000	11%
\$40,001 to \$45,000	18%
\$45,001 to \$50,000	13%
\$50,001 to \$55,000	15%
\$55,001 to \$60,000	14%
\$60,001 to \$65,000	5%
\$65,001 to \$70,000	2%
\$70,001 to \$75,000	10%
\$75,001 to \$80,000	2%
\$80,001 or more	1%

The positive job environment leads to a 9% decrease in those stating that they would attend graduate school this year.

Fifty-one percent of graduate graduates reported full-time employment, a 5% rise from Spring 2005.

Graduate Employment Status at Graduation

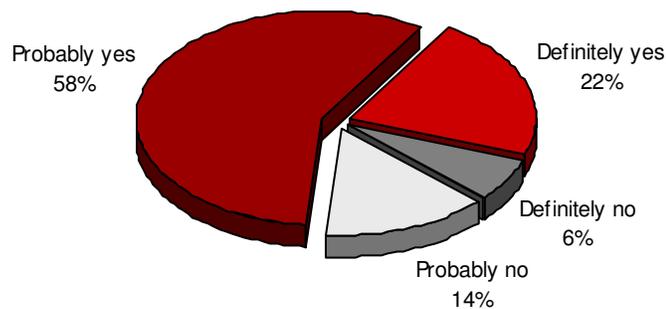


There was a 7% increase in graduate graduates obtaining a new job.

III.C.2. Alumni Survey

In Fall of 2005, after an environmental scan of our peers, the Alumni survey was redesigned with input from Advancement and Career Development services. The instrument consisted of 36 items that asked alumni to rate their overall experience, assess their skill development, education and student services. Alumni were also asked if they had undertaken further formal education and their employment status. An email invitation and subsequent email reminders were sent to all alumni who graduated in the last three years. Many of the respondents reported that classes, classmates and professors were the most meaningful part of their university experience. If they had to choose a college again, eighty percent of the respondents would choose NJIT.

Alumni Survey Fall 2005: If you had to do it over again, would you choose NJIT? (n = 438)



In general, alumni rated their education and student services positively especially intellectual atmosphere, faculty relationships with student and the general professionalism of the program. All skills were rated above a mean of 3.25 (5=high, 1=low) and NJIT preparation for their career/profession received a positive rating of 3.51. Within three years of graduation, eighty-five percent of NJIT graduates were employed full-time. Since graduating, 37% have undertaken further formal education. Seventy-one percent sought a Master's degree and 20% pursued a doctorate or other professional degree.

III.C.3. Tracking by Office of Career Development, Faculty & Others

In addition to the survey program, numerous other mechanisms are in place that help to provide NJIT with feedback and information about graduates. The Office of Career Development conducts a survey of graduates at the time of graduation, and this survey occurs approximately 1 month after the graduating student survey. At the time of graduation, the number of students reporting that they are employed increased several percentage points across all levels. Many alumni of NJIT continue to participate in the life of the NJIT community through membership in the alumni association, advisory boards established for academic programs, and through other events. Such participation generally includes the opportunity to advise NJIT on the graduate's experiences, achievements, and recommendations regarding programs.

III.D. Degrees

III.D.1. Bachelor's Degrees Awarded 2007

CIP Code	Institutional Program Title	Total
40201	Architecture	99
110101	Computer Science	74
110103	Information Technology	72
	Information Systems / Human Computer Interaction / Biomedical	
110401	Informatics	28
119999	Bioinformatics	1
140501	Biomedical Engineering	57
140701	Chemical Engineering	36
140801	Civil Engineering	61
140901	Computer Engineering	63
141001	Electrical Engineering / Telecommunications	95
141301	Engineering Science	7
141401	Environmental Engineering	2
141901	Mechanical Engineering	63
143501	Industrial Engineering	15
150000	Engineering Technology	139
231101	Professional & Technical Communication	5
260101	Biology	10
270101	Mathematical Sciences	22
270501	Applied Statistics	1
301501	Science/Technology & Society	9
400501	Chemistry	3
400899	Applied Physics	3
520201	Management of Technology	79
540101	History	5
	Total	949

III.D.2. Master's Degrees Awarded 2007

CIP Code	Institutional Program Title	Total
30104	Environmental Sciences	10
40201	Architecture	24
40301	Infrastructure Planning	7
110101	Computer Science	194
	Information Systems / Human Computer Interaction / Biomedical	
110401	Informatics	54
140501	Biomedical Engineering	41
140701	Chemical Engineering	13
140801	Civil Engineering	59
140804	Transportation	8
140901	Computer Engineering	24
141001	Electrical Engineering / Telecommunications	131
141401	Environmental Engineering	5
141801	Material Sciences & Engineering	6
141901	Mechanical Engineering	22
143501	Industrial Engineering	10
143601	Manufacturing Engineering	6
	Internet Eng. / Occupational Safety & Health Eng. / Pharmaceutical	
149999	Eng.	25
151501	Engineering Management	53
231101	Professional & Technical Communication	14
261103	Computational Biology	5
270301	Applied Mathematics	4
270501	Applied Statistics	14
400501	Chemistry	4
400899	Applied Physics	2
440501	Environmental Policy Studies	4
520201	Management	39
520299	Management of Technology	80
	Total	858

III.D.3. Doctoral Degrees Awarded 2007

Table III.D.3 Doctoral Degrees Awarded 2007 (Number)		
CIP Code	Institutional Program Title	Total
30104	Environmental Sciences	1
110401	Information Systems / Human Computer Interaction / Biomedical Informatics	5
140501	Biomedical Engineering	3
140701	Chemical Engineering	5
140801	Civil Engineering	1
140804	Transportation	2
140901	Computer Engineering	2
141001	Electrical Engineering / Telecommunications	11
141401	Environmental Engineering	2
141801	Material Sciences & Engineering	2
141901	Mechanical Engineering	5
270101	Mathematical Sciences	4
400501	Chemistry	2
400899	Applied Physics	4
459999	Urban Systems	1
520201	Management	2
Total		52