

#### ABOUT THE ALBERT DORMAN HONORS COLLEGE

The Honors College enrolls more than 650 students from all majors. More than one in four are women, a proportion that is consistently rising each academic year. The combined average SAT score is over 1300 (critical reading and math). The Honors experience includes specialized courses, colloquia, leadership programs and activities, both at NJIT and abroad; opportunities for research, internships and service; personalized advising and more. The Honors College has grown steadily since it was established as an Honors program in 1985, and then named Albert Dorman Honors College in 1995.

#### RESOURCES AND FACILITIES

All Honors students have an individual Honors advisor as well as their major advisor. Honors College students have exclusive access to the Honors Resource Center, which offers a computer lab and spaces for studying and relaxing. Honors students have priority for on-campus housing. Students can also choose to live on the specially designated Honors floors.

#### ADMISSION REQUIREMENTS

The Honors College application is part of the NJIT application. The Honors College considers students who have combined critical reading and math SAT scores of 1250 or higher (or an ACT score of 28 or higher), are in the top 15 percent of their high school class, have a wide range of interests, and participate in leadership and service activities. Accelerated programs, such as BS/MD, BS/DMD, BM/OD and BS/JD, have different eligibility requirements.

#### HOW TO APPLY

Choose one of these ways to apply:

- Apply online at [www.njit.edu/admissions/applyonline.php](http://www.njit.edu/admissions/applyonline.php).
- Download a PDF of the application to print out at [www.njit.edu/admissions/applyonline.php](http://www.njit.edu/admissions/applyonline.php).

#### DEADLINES FOR APPLYING

- For fall semester: March 1
- For spring semester: November 15
- For accelerated programs: November 1

NJIT uses rolling admissions. You should hear from us within three weeks from the date that your file is complete. You can check your application status online at [www.njit.edu/admissions/check-status.php](http://www.njit.edu/admissions/check-status.php).

#### HONORS COLLEGE SCHOLARSHIPS

In addition to financial aid awarded by NJIT, the Honors College offers merit scholarships from one-half to full tuition for students who are U.S. citizens or permanent residents. Some scholarships are also available for international students. National Merit finalists and applicants admitted to the 7-year BS/MD program between NJIT and UMDNJ receive a full scholarship package. Contact the Honors College at [honors@njit.edu](mailto:honors@njit.edu) for details.

#### NJIT AT A GLANCE

- New Jersey's Science and Technology University, founded in 1881.
- Nearly 9,000 students, including 6,103 undergraduates.
- *A Princeton Review* "Best College."
- Ranked by *U.S. News & World Report* among the nation's top national universities, NJIT is 7th in the nation in diversity.
- With annual research expenditures of more than \$92 million, NJIT is nationally recognized in such areas as digital design, wireless communications and networking, solar physics, advanced engineered particulate materials, nanotechnology, neural engineering and sustainable systems.
- A student in any of the other five colleges at NJIT can also become a member of the Honors College as either a freshman or transfer student.

#### FOR MORE INFORMATION

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Newark, New Jersey 07102-1982  
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To contact the NJIT Admissions Office, go to [www.njit.edu/admissions](http://www.njit.edu/admissions) or e-mail [admissions@njit.edu](mailto:admissions@njit.edu).



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## ALBERT DORMAN HONORS COLLEGE



At the Leading Edge

## THE ALBERT DORMAN HONORS COLLEGE GIVES YOU THE EDGE

Every Honors scholar is enrolled in both the Albert Dorman Honors College and one of NJIT's five academic colleges. The benefits of this dual enrollment include:

### • INTENSIVE LEARNING

Working closely with your advisor, you'll design a highly individualized program consisting of Honors courses, colloquia and real-world learning experiences. As a Dorman Honors scholar, you have the opportunity to do graduate-level work as an undergraduate, and, depending on your major, you can earn additional credit toward an advanced graduate degree.

### • MERIT SCHOLARSHIPS

Dorman guarantees a significant financial award to each Honors student.

### • ENRICHING EXPERIENCES

Through internships and co-ops, community service, study abroad, interdisciplinary design studios (IDS) and research with faculty, you'll gain a keen sense of how to apply theoretical knowledge to real-world challenges and learn indispensable leadership skills for success in college, graduate school and your professional career.

### • EXCEPTIONAL PEOPLE

It's hard to imagine a more enthusiastic and engaged community of students, professors and professionals than those you'll meet in the Honors College. From the freshman Honors retreat, to the Honors floors in the residence hall, to study groups in the Honors Resource Center, Dorman provides ample opportunities for you to get to know others.

The Albert Dorman Honors College at NJIT attracts the brightest and most gifted students interested in science and technology, and draws on the university's five academic colleges. Dorman is at the leading edge of NJIT's commitment to offer nationally recognized academic programs, provide substantial merit scholarships and educate tomorrow's top talent. Serving more than 650 high-performing students majoring in fields ranging from architecture, design and engineering to applied math, physics, management and information technology, Dorman offers an educational experience like no other in the state or region. Because Dorman is a small college within a large research university, Honors scholars have access to the best of both worlds. They enjoy personalized attention in small classes plus the opportunity to work in world-class facilities with faculty who are conducting some of the most exciting applied research today. This dynamic, along with our Honors interdisciplinary design studios (IDS), colloquia and hands-on learning experiences, is expressly designed to form leaders who make real and positive change in communities all over the world.

### GREETINGS FROM HONORS COLLEGE DEAN JOEL BLOOM

In the Albert Dorman Honors College, students and faculty from every one of NJIT's academic colleges come together to form a close-knit, collaborative community.

As a member of this vibrant group, you will share a rich and challenging educational experience that includes a wealth of opportunities both in and beyond the classroom. Dorman scholars put theory into practice through internships, community service, international study and research alongside NJIT's award-winning faculty. After graduation, our students go on to top graduate programs and to careers where they shape the world as leaders, innovators and entrepreneurs.

The Albert Dorman Honors College is truly an exceptional opportunity. I encourage you to visit and look forward to meeting you as you learn more about the Honors experience at NJIT.



Joel Bloom

The more than 650 students enrolled in the Honors College rank among the top academic performers in the nation. The May 2011 Honors College graduating class had an average GPA of 3.65.



▲ ALBERT DORMAN

founding chairman, AECOM,  
BS in mechanical engineering '45,  
ScD (Hon) '99

"NJIT is the university of opportunity. It will offer you so many options. All you have to do is take advantage of them."

–Fazian Naqvi, Junior Recipient of the Goldwater Scholarship for Solar Research

"The education I received at NJIT allowed me to focus on emergency medicine. . . . To jump out of bed every morning and love going to my job, that is amazing. And I owe it all to NJIT."

–Dr. Biren Bhatt '05, chief resident of emergency medicine, New York Presbyterian Hospital

### A LEADER'S LEGACY: ALBERT DORMAN BS '45

Albert Dorman has distinguished himself over a 40-year career, founding several successful engineering and architectural firms and serving as a designer, manager and leader on hundreds of projects on all seven continents.

In 1995, motivated by the belief that the world urgently needed outstanding leaders and nimble thinkers to solve our most pressing global problems, Mr. Dorman helped establish one of the finest honors colleges in the nation at NJIT. As an alumnus, he knew firsthand that the university was positioned to inspire and equip young people to perform on the front lines of academia and in the professional world.

The Albert Dorman Honors College encourages in its students the qualities that Mr. Dorman embodies: a commitment to life-long professional growth, remarkable achievement and tireless public service.

Albert Dorman earned a Bachelor of Science in mechanical engineering at NJIT, and later a master's degree in civil engineering at USC. He started his own civil engineering company at age 28, and then launched an architectural engineering firm. A founder of AECOM, a global engineering, design and program-management firm serving government and commercial clients in more than 50 countries, he has provided leadership on myriad landmark projects, including bridges, tunnels, dams, ports and harbors, airports, educational and medical facilities, and military and industrial installations.

Albert Dorman continues to play an active role supporting and guiding Honors scholars. Says Mr. Dorman: "Our Honors scholars will become outstanding professionals and managers who can provide leadership to others outside their fields, build teams to successfully accomplish complex programs and manage difficult research."

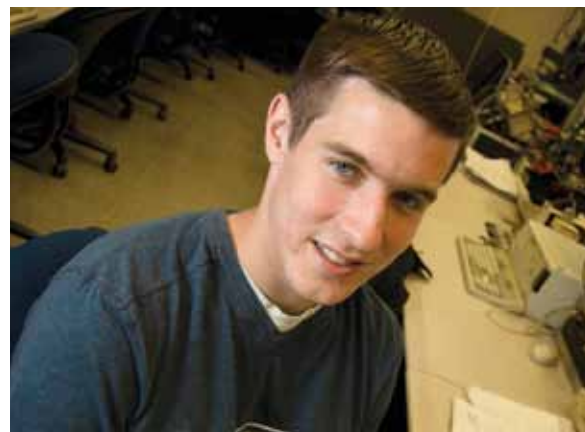
Last year, nearly 75 percent of Honors students worked with faculty members or professionals off campus in exciting research with high societal impact, such as projects involving stem cells, micro-robotics, hybrid electric vehicles, nanotechnologies and solar flares.

# at the leading edge . . . Intellectual Challenge

Each year, the Honors College convenes a vibrant community of talented students, accomplished professors, and creative, leading-edge researchers and entrepreneurs to challenge your intellect and support you in your academic goals.

- **Guidance:** Honors advisors not only help you figure out what classes to take, but also the best ways to learn and pursue your interests outside your classes. You'll also create an individual educational plan your first semester to help you self-direct your education and build a résumé that will include your many activities as an Honors College student.
- **Honors courses:** You will choose from more than 60 Honors courses in both major and non-major courses. In these small, interactive classes, you will question deeply, explore thoroughly, make interconnections among ideas and concepts from other disciplines and engage in lively discussions with other students who are just as interested in learning as you are.
- **Accelerated programs:** The Honors College offers several ways to save a year's time (and tuition) while earning your bachelor's and advanced degrees. Options with the bachelor's degree include:
  - PhD, MBA or MS at NJIT
  - JD at Seton Hall Law School
  - MD at the New Jersey Medical School of the University of Medicine and Dentistry of New Jersey (UMDNJ), Newark
  - MD at St. George's University Medical School, Grenada, West Indies
  - DMD at UMDNJ/New Jersey Dental School, Newark
  - Doctor of Physical Therapy (DPT) at UMDNJ School of Health Related Professions, Newark
  - OD at the SUNY College of Optometry
- **Study abroad:** The Honors College is increasingly global in its outlook. You can fulfill honors requirements by studying abroad for a semester, academic year or summer in countries including China, Denmark, Egypt, France, Germany, India, Italy, Japan, the Netherlands, Russia, Singapore, Spain, Sweden, Thailand, Turkey and the United Kingdom.

- **Colloquia:** About a dozen times each semester, students converse with leaders of industry and government, as well as scholars, artists and musicians, through lectures, study tours, panels and special programs. The topics and formats are wide-ranging, but the colloquia share the same goal: to expand learning beyond the classroom. A perennial favorite takes place when members of the college's Board of Visitors or a panel of Honors College alumni come to campus to share their experiences and advice about life as a professional. For many students, these conversations turn into ongoing mentoring.
- **Graduate programs:** Get an early start on a graduate degree with automatic acceptance into NJIT's accelerated BS/MS program. Take graduate courses as an undergraduate and have credit applied toward both undergraduate and graduate degrees at NJIT. For more information, visit [honors.njit.edu/academics](http://honors.njit.edu/academics).



Mechanical engineering major Jonathan Daudelin says he has found NJIT to be a great all-around school, with a strong focus on engineering as well as an active social environment. "NJIT is very interested in expanding and ever improving the programs. It's nice to be at a school that is rising in prestige without the enormous costs of a big-name school," he says.

## ▼ JILYAN DECKER | 2014

**MAJOR:** BIOMEDICAL ENGINEERING (7-YEAR BS/MD WITH THE UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY)  
**HOMETOWN:** FREEHOLD TOWNSHIP, NEW JERSEY  
**FUTURE PLANS:** ATTENDING MEDICAL SCHOOL AT UMDNJ

Recent colloquia featured Michael Laine discussing his Space Elevator project; J. Robert Hillier on "Life after Recession: Think Outside the Box"; and the Lillian Gilbreth Lecture advancing the cause of women in engineering. Study tours took students to Washington, D.C., the FAA Technical Center, Atlantic City, and the New Jersey Performing Arts Center and Prudential Center here in Newark.



**WHY NJIT?** NJIT's generous financial aid as well as its outstanding academic and research opportunities in the biomedical engineering department were all factors in my choice.

### DO YOU HAVE A SCHOLARSHIP?

Yes. The scholarship I received from NJIT has assisted me greatly during my college career. It relieves the stress associated with having to work while in college. It gives me more time to focus on my studies.

### ARE YOU INVOLVED IN CLUBS

**OR ACTIVITIES?** I'm a member of Engineers without Borders. Our NJIT chapter has been working for several years on projects that would help ensure a clean water supply in Milot, Haiti. I'm currently taking an independent, non-credit course in which our team is designing a bioreactor that would become part of a sustainable sanitation system for their local hospital.

**PLANS AFTER GRADUATION?** I'm in the accelerated BS/MS program, so my course is set for the next seven years. After I complete my bachelor's in biomedical engineering, I will be attending medical school at the University of Medicine and Dentistry of New Jersey.

### HOW IS NJIT HELPING YOU ACHIEVE

**YOUR GOALS?** My main goal is to successfully combine my two academic passions: engineering and medicine. NJIT's biomedical engineering program offers me the perfect opportunity to do so. It is academically rigorous and offers many research opportunities, even to undergraduate students.

# at the leading edge . . . Hands-on Learning

Beyond the classroom and lab, your education will take place in the real world—in a soup kitchen, a business, a research facility or at an overseas university. Hands-on experiences, such as interdisciplinary design studios (IDS), allow you to move from the theoretical to the real world, where you'll encounter demands for global solutions, try your hand at solving problems, and develop leadership and entrepreneurship skills that will give you the edge in college, graduate school and your professional career.

Honors students find many ways to live out their learning. A few examples in their own words:

## RESEARCH

- I'm exploring ways to strengthen the bones of kids with cerebral palsy at the Children's Hospital.
- At the Antenna, Microwave and Optical Systems Branch of NASA, I'm trying to advance miniaturized antennae for communication applications.
- At Bristol-Myers Squibb, I analyzed a complex chemical reaction used to develop a cancer drug.
- I'm programming a computer to translate sign language into spoken words, so people who know sign language can communicate with those who don't.
- At NJIT's Center for Solar Terrestrial Research, I designed a system that detects gravity waves in the lower atmosphere of the metropolitan area. The system could help scientists understand how gravity waves influence global warming.

## INTERNSHIPS

- For my internship with Becton Dickinson, I took part in audits (even traveling to Mexico City and Buenos Aires) and projects related to the Sarbanes-Oxley law.
- I tested the software and hardware performance of iPod interfaces at Circuit Works.
- At Intel, I analyzed computer components and calculated machine wattage. My analysis saved Intel about \$50,000.
- I helped develop, install and maintain a bacterial vaccine manufacturing process at Merck & Co. Inc.
- At Lockheed Martin, I was able to assess the real-time growth rate of urbanization by using Earth's nighttime lights satellite imagery data.

As early as possible, the Honors College encourages students to take learning beyond campus through co-ops and internships. For example, electrical engineering major Julia Gaynor had an internship in 2010 at NV Energy's operations department, and in 2011, she worked on a research project at Johns Hopkins University to design a color glove for the blind or visually impaired.



Like the majority of Honors College students, biology major Mousa Hamad has done neuroscience research on learning and memory. Learn more about his research at [www.youtube.com/watch?v=Di5SyQY51YY](http://www.youtube.com/watch?v=Di5SyQY51YY).



Computer engineering major and varsity swimmer Christopher Early says NJIT helped him obtain valuable career experience and develop stronger interpersonal skills. "The Honors program here is remarkable and allows students to not only build a strong bond with other students but also network with the staff and many business professionals."



## SERVICE

- Working with Habitat for Humanity in a studio course focused on affordable, sustainable housing for Newark residents, I created a townhouse design that was selected for construction in the city.
- I taught music to middle school students at St. Philip's Academy in Newark.
- I managed a team of about 50 NJIT mentors who worked with Newark students taking part in the FIRST Robotics Competition sponsored by NJIT.
- I translated a brochure into Portuguese for the City of Newark.
- I volunteered as a computer technician for the Middlesex Board of Education.
- This past summer, I took part in a medical mission trip with the International Service Learning organization and traveled to rural Costa Rica to help provide medical care to the poor and underserved.

The Honors Lounge offers students a place to continue discussions from class, share ideas, get to know each other better or just relax.

The Honors College is more than a springboard for personal growth and fulfillment. The Honors designation on your diploma will show prospective employers and graduate schools that you're exceptionally well prepared to take on any challenge in the world.

## THE MANY PATHS OF HONORS COLLEGE GRADUATES

Honors College graduates launch some remarkable futures. Nearly half go on to graduate school (compared to 30 percent at most technological universities) at some of the top institutions, including Carnegie Mellon, Columbia, Cornell, Harvard, Johns Hopkins University, MIT, Princeton, Stanford, University of Cambridge, Wharton School of Business and Yale, as well as NJIT. Others start their own companies, travel or become doctors, lawyers, scholars, teachers, engineers, scientists or architects. Wherever they go, they leave their mark, improving lives, products, business and more. A few examples:

- Owen Fitzgerald '08, civil and construction engineering technology, joined the Peace Corps and is currently completing his volunteer work in Mali, West Africa.
- Katrina Hornstein '10, mechanical engineering, is pursuing an MS in aeronautics and astronautics at Stanford University.
- Daniel Kopec '99, architecture, completed a master's program at Yale and practices at the office of Santiago Calatrava, a well-known architect/engineer for the new World Trade Center PATH Station. He also owns a furniture company and teaches architecture at New Jersey Institute of Technology.
- Sean McTigue '03, biology, earned an MD from UMDNJ and is currently a fellow at UMDNJ caring for children with infectious diseases, primarily pediatric HIV and AIDS.
- Leena Raut '99, '10, completed both a bachelor's and master's degree in science, technology and society at NJIT, earned her law degree from Brooklyn Law School and is currently the assistant regional counsel for the U.S. EPA (New York City Region).
- Alexander Salazar '11, civil engineering, is pursuing an MS in civil engineering with a concentration in mechanics, materials and structures at Princeton University.
- Karisa Solt Schreck '04, biomedical engineering, did extensive research at UMDNJ as an undergraduate and is pursuing both an MD and a PhD in neurosciences at Johns Hopkins School of Medicine.