

**NYU****TANDON SCHOOL
OF ENGINEERING**

DID YOU KNOW?




GENERAL FACTS

- NYU Tandon leapt **from 80 to 40** in the *U.S. News and World Report* rankings over the last decade.
- Alum James Truslow Adams (1898) coined the term **The American Dream** in his 1931 book *The Epic of America*, painting a portrait of a place where *“each man and each woman shall be able to attain to the fullest stature of which they are innately capable, and be recognized by others for what they are, regardless of the fortuitous circumstances of birth or position.”*



- **NYU WIRELESS** is among the top 5 academic research centers for 5G wireless communications, is at the vanguard of tomorrow's tech. Having pioneered mm wave wireless, the center is exploring realms above 100GHz, and now #6G. The future is now.
- **Women** make up 46% of the Tandon Class of 2023, more than double the national average (22%) for all engineering schools' baccalaureate programs. 40% of our students are first in their families to attend college and more than one-third are Pell eligible.

- **FINTECH**: Second oldest financial engineering program (1995), ranked #9 by QuantNet in 2019.
- NYU Tandon is a premier center for **Cybersecurity**. It launched one of the first cybersecurity master's degree programs (1998); originated the world's most comprehensive student-run cybersecurity games, CSAW, with 20,000 participants annually; is home to the Bridge to Tandon online intensive, uniquely designed to give those lacking a background in computer science a gateway into rigorous master's degree programs in cybersecurity and computer science; is recognized worldwide as a leader in hardware security research; and, as home to the NYU Center for Cybersecurity, offers a cross-disciplinary master's degree program in cybersecurity law and policy. CSO Online ranked NYU Tandon among the top 5 cybersecurity master's degree programs.
- Tandon is home to the first NYC-supported tech incubator, created in 2009; today, our network of startup business hubs includes the **Digital Future Lab**, devoted to such areas as cloud computing and digital media; the **Urban Future Lab**, whose companies are working to advance smart cities, and clean energy; the **Data Future Lab**, which incubates early-stage businesses working with computing, artificial intelligence, machine learning, or building intelligent conversational agents; and the **Veterans Future Lab**, dedicated to helping the nation's military veterans transition to civilian life through entrepreneurship.
- **C2SMART** is one of only 20 Tier One U.S. Department of Transportation university research centers.
- **NYU Tandon Online** is ranked by *U.S. News and World Report* among Best Online Graduate Engineering programs for the 7th year in a row, and #2 among Online Information Technology Master's Degree Programs.
- The Center for **K12 STEM** Education has educated 500 teachers and positively impacted over 50,000 public school students since 2013.
- Fully **50% of our faculty** members are winners of **CAREER or other young-investigator honors**, including six CAREER Awards bestowed in 2019 alone.
- Named one of the world's **top 25 universities for civil engineering** in 2019 by Construction Week Online
- **#11 nationwide** in the number of engineering master's degrees awarded
- Ranked **#12 by ASEE** in research expenditures per doctoral student



ALUMNI

- In 1914 the Panama Canal was completed. Its lock system was the work of our alum **Henry Goldmark** (1874), who was later awarded a medal of honor by President Howard Taft for his crucial contribution to the project.
- In 2009, when she was appointed CEO of Xerox, **Ursula Burns** ('80) became the first African-American woman ever to head a Fortune 500 company.



Ursula Burns, '80

- In 1957 **Eugene Kleiner** ('48) helped found Fairchild Semiconductor, a pioneer in transistor and integrated-circuit manufacturing. The company's production of silicon transistors, rather

than ones made of more common germanium, helped give Silicon Valley its name. Kleiner later co-founded a venture capital firm that provided funding for such now-iconic companies as Amazon, Google and AOL.

- In 2016, **Nina Freeman** ('15) was named one of the most important young figures in the gaming world by Forbes magazine; in 2018 her work was included in an exhibit at London's Victoria & Albert Museum, and CNN recognized her as one of the "bold, provocative, and inclusive new faces of game design."
- **Myriam Sbeiti**, the valedictorian of the Class of 2018, is the co-founder of a thriving company, Sunthetics, launched while she was still a student and devoted to developing greener production methods for the chemical-manufacturing world. She is an example of the Tandon entrepreneurial way of thinking.
- **Arthur V. Abbott** (1875) and **James J. Wood** (1879) were instrumental in building the Brooklyn Bridge
- The Tandon community includes multiple Nobel laureates — **Frances Crick** (postdoctoral fellow during the '53-'54 academic year), **Gertrude B. Elion** (former Ph.D. student and



Paolo Nespoli, '88, '89

recipient of a 1989 honorary degree), **Martin L. Perl** ('48), and former professor **Rudolph Marcus** — as well as Turing Prize winners **Judea Pearl** ('65) and **Martin Hellman** ('66)

- **John McKeen** ('26) and **Jasper H. Kane** ('28) enabled the mass production of penicillin, thereby saving countless lives
- **Charles R. Flint** (1868) founded such iconic companies as IBM.
- NYU Tandon's astronaut alum, **Paolo Nespoli** ('88, '89), completed three trips aboard the International Space Station, bringing the total number of days he spent in space to 313.

FACILITIES

- **370 Jay Street**, the 500,000-sq-ft former MTA headquarters has been transformed into a state-of-the-art home to innovation, technology, and engineering.
- The NYU Tandon **MakerSpace** contains everything aspiring engineers need to take their innovations from ideas to concepts and eventually prototypes.
- Tandon's **NanoFab Cleanroom**, Brooklyn's first cleanroom, will allow our researchers to fabricate advanced materials and devices that will push the boundaries of established science and technology.
- The **RLab** — the first City-funded virtual and augmented reality lab in the country — helps change the way we communicate, tell stories, and conduct business. AR/VR will help us connect to the past, formulate new futures, and make tomorrow's reality attainable to others.

