Stevens Institute of Technology

Background and Progress, 2011-2021

Division of University Relations
Updated February 2021
About Stevens

A premier, private research university with a mission to inspire, nurture and educate leaders in tomorrow’s technology-centric environment while contributing to the solution of the most challenging problems of our time
A Student-Centric, Technological Research University

- Established in 1870 by America’s “first family of inventors”

- Located in Hoboken, New Jersey, minutes from Manhattan

- Prepares leaders for our technology-driven world

- Advances science and technology education and research in areas of great societal need

- Contributes to the study and solution of the most challenging problems of our time
Technology-Focused, Broad Reach

Charles V. Schaefer, Jr.
School of Engineering and Science
Advancing scientific knowledge to create groundbreaking solutions to 21st-century challenges

School of Business
Leading innovation in business management and finance, across industries and around the globe

School of Systems and Enterprises
Optimizing the design, creation and operation of complex systems and organizations

College of Arts and Letters
Uniting humanities, arts, science and technology to inspire and inform change and innovation
Driven by Real-World Experience

Cooperative education
Project-based learning
Faculty-mentored research
Case studies drawn from industry
Internships
Cross-disciplinary collaboration, reflective of real-world projects
Legacy of Innovation

The Stevens family: The first family of American inventors

• Introduced the first mechanical engineering degree in the U.S.
• Designed the steam ferry, the T-rail and the first American-built steam locomotive
• Built and operated the first U.S. commercial railroad
• Instrumental in developing U.S. patent law
• Created the America’s Cup racing series and designed and sailed the yacht America, the first winner of the Cup

Edwin A. Stevens
The yacht America
Colonel John Stevens III
John Stevens’ original steam carriage
Once and Future Pioneers

Stevens alumni have followed in the footsteps of the university’s founding family to become modern-day game-changers.

• Created the field of scientific management
• Invented the Gantt Chart
• Co-founded GM and Texas Instruments
• Won a Nobel Prize for discovering the neutrino

• Created the art form known as the mobile
• Directed command, service and lunar module design for NASA’s Apollo moon missions
• Invented the IMAP email protocol
• Invented bubble wrap
Stevens Leadership

Nariman Farvardin, President
A distinguished higher education leader and accomplished researcher, entrepreneur and inventor in data communication, image coding and wireless communication

Christophe Pierre, Provost & VP for Academic Affairs
An accomplished academic administrator and an internationally acclaimed scholar in the fields of vibration and structural dynamics

Stephen T. Boswell, Chairman of the Board of Trustees
President and CEO of Boswell Engineering, co-founder of ConnectOne Bank and trustee of Hackensack Meridian Health
Foundational Research Pillars

Areas of Focus

Artificial Intelligence, Machine Learning and Cybersecurity
Biomedical Engineering, Healthcare and Life Sciences
Complex Systems and Networks
Data Science and Information Systems
Financial Systems and Technologies
Resilience and Sustainability

More than $46 million in research awards during FY20
### University Facts

- **Total Undergraduate Students**: 3,791
- **Total Graduate Students**: 3,466
- **Undergraduate Student-Faculty Ratio**: 12:1
- **Full-Time Faculty (including lecturers)**: 328
- **Undergraduate Majors**: 34
- **Master’s Programs**: 56
- **Ph.D. Programs**: 22
- **Active Research Centers**: 16
- **First-Year Retention Rate**: 93%
- **6-Year Graduation Rate**: 88%

**DEGREES:**
- B.E., B.S., B.A., Engineer
- M.S., M.A., M.Eng., MBA, Ph.D.

Enrollment figures reflect Fall 2020 census.
National Rankings and Recognition

#17
For Return on Investment
20-year net return on investment, 2020
College ROI Report

#11
Career Placement
Best Value Colleges, 2020

#12
For Mid-Career Salaries
2020-2021 College Salary Report

#4
Top Earnings
Ranked among the 25 U.S. "colleges where students go on to earn the most money," 2018

#2
For Gender Equity in Starting Salary
As reported in Forbes, 2018

#8
Increase
In U.S. News & World Report’s ranking of National Universities, from 88 in 2012 to 80 in the 2021 edition

#15
Top 15 For Internships
Best Value Colleges, 2020

#14 For Return on Investment 40 Years After Enrollment
Georgetown University Center on Education and the Workforce’s “A First Try at ROI,” 2019

#10
Among the Most Innovative Colleges
National Graduate Program and School Rankings

#8
Online Graduate Computer Information Technology Programs
U.S. News & World Report, 2021

#14
Online Graduate Business Programs (non-MBA)
U.S. News & World Report, 2021

#68
Best Business Schools

#35
Online MBA
U.S. News & World Report, 2021

#21
Online Graduate Engineering Programs
U.S. News & World Report, 2021

#79
Best Engineering Schools

#16
Online MBA Specialties for Business Analytics
U.S. News & World Report, 2021

#8
Online Engineering Specialties for Industrial/Systems Engineering
U.S. News & World Report, 2021

#31
Best Industrial / Systems / Manufacturing Engineering Program
A University on the Rise

Undergraduate Class, Entering Fall 2020
SAT Range: 1320-1480
(middle 50%)

187% 10,346 First-Time, Full-Time Applicants
64% 918 First-Time, Full-Time New Students
56% 3,791 Undergraduate Enrollment

Unprecedented Graduate Enrollment Growth
Prospective student interest is stronger than ever.

247% 11,184 Applications
15% 3,466 Graduate Enrollment
67% 2,202 Full-Time Graduate Students

Enrollment figures reflect Fall 2020 census data. Percent increases reflect growth since 2011.
Lifelong Returns
Stellar student outcomes are a Stevens standard

$77,000  Average starting salary of graduates

95%  of studentssecured intended outcomes
within six months of graduation

77%  had their outcomes finalized
prior to graduation

Data from the Career Outcomes Report for the Class of 2020
Stevens in the News

National media attention for topics ranging from pandemics and biomedical engineering to politics and the economy

Nike’s Vaporfly shoes changed running, and the track and field world is still sifting through the fallout 2/9/2020

Scientists solve mystery of bombardier beetle’s hot, toxic spray 7/5/20

New Jersey College Student Crafts Face Shields Between Classes to Help Nursing Homes, Hospitals Fight Coronavirus 1/13/20

Interview with Pandemic Expert Theresa MacPhail 4/3/2020

Could a New Swine Flu Strain Mean a Second Pandemic? 7/2/20

What a pandemic in America might look like 2/24/20

Bringing the ocean’s midnight zone into the light 9/22/20

Stocks and bonds send mixed signals about economy 5/27/20

‘Election stress disorder’: How to cope with the anxiety as political tensions intensify 3/3/20

More colleges shift to online learning for fall semester 8/8/20

Minding the GAAP: companies are using a wider range of accounting metrics to inform investors—and sometimes mislead them 1/24/20

Fourth spy at Los Alamos knew A-Bomb’s inner secrets 1/27/20
Global Reach

A vast international network offers boundless opportunities in our global economy.

- Students from **43 states** and **62 countries** and alumni from every region of the world
- Global international student exchange agreements
- Study abroad opportunities
- Global academic partnerships
- Worldwide research programs
- Partnerships with multinational corporations and governments
The Stevens Alumni Network

Stevens alumni are leaders in companies as diverse as United Technologies Corporation, PSEG, Healthfirst, Merck, Citibank, SAP, Goldman Sachs and AT&T.

50,000+ Alumni

More than 86 countries represented

20+ official clubs worldwide
Athletics

• 25 NCAA Division III Varsity Sports

• Member of the Middle Atlantic Conference (MAC) and the MAC Freedom

• Combined cumulative GPA for all varsity sports > 3.5

• 29 CoSIDA Academic All-Americans since 2011

• 14 national championships since 2011

• 11 consecutive top-45 finishes in the Learfield IMG College Directors’ Cup Division III Final Standings
Innovation Applied
A unique and powerful academic experience
Research Centers and Labs

- Center for Complex Systems and Enterprises (CCSE)
- Center for Decision Technologies (CDT)
- Center for Environmental Systems (CES)
- Center for Healthcare Innovation (CHI)
- Center for Innovation in Engineering and Science Education (CIESE)
- Center for Neuromechanics
- Center for Quantum Science and Engineering (CQSE)
- Davidson Laboratory
- Hanlon Financial Systems Center (FSC)
- Highly Filled Materials Institute (HfMI)
- Laboratory for Multiscale Imaging (LMSI)
- MicroDevice Laboratory
- The New Jersey Center for MicroChemical Systems (NJCMCS)
- Sensor Technology & Applied Research Center (STAR)
- Stevens Alliance for Innovation and Leadership (SAIL)
- Stevens Institute for Artificial Intelligence (SIAI)
The Stevens Venture Center: Fueling Entrepreneurship

A dynamic, collaborative environment where selected entrepreneurs can develop promising concepts and technologies into thriving businesses

- Technology support
- Opportunities to share best practices and experiences
- Networking
- Access to legal and accounting experts and investors
- Education in building a successful business

The SVC provides the infrastructure, resources, training and support to bring entrepreneurial dreams closer to reality.
Shaping the Future

Stevens research tackles some of the most urgent challenges facing our world today.

- Resilient engineering
- Energy innovation
- Healthcare delivery
- Nuclear preparedness and civil defense
- Flood forecasting and preparation
- Biomedical research and drug discovery
- Cybersecurity
- Healthcare analytics
National Centers of Excellence

Maritime Security Center (MSC)
A Department of Homeland Security Science & Technology (S&T) National Center of Excellence
Director: Hady Salloum

Systems Engineering Research Center (SERC)
A University-Affiliated Research Center of the U.S. Department of Defense
Director: Dinesh Verma
Thank you.