Today's challenges require innovative thinking and collaborative approaches that bridge engineering disciplines with science, law, public policy and business. Together with world-class partners, the University of Washington's College of Engineering is developing a new generation of innovators. A national leader in educating engineers, each year the College turns out new discoveries, inventions and top-flight graduates, all contributing to the strength of our economy and the vitality of our community.

PREPARING THE NEXT GENERATION OF ENGINEERING LEADERS

The College works to ensure that students from all backgrounds succeed, from their first days on campus to their post-college careers.

DIRECT-TO-COLLEGE ADMISSIONS
In fall 2018, the College admitted its first DTC cohort, 950 students, directly into engineering as freshmen, in order to better prepare them for an engineering education and future careers.

STARS
The Washington STate Academic RedShirt program provides highly motivated Washington state students from economically or educationally disadvantaged backgrounds with a specialized curriculum designed to build learning skills.

CAREER CENTER @ ENGINEERING
The CC@E offers career coaching, career fairs, on-campus interviews and programming that prepares students for success in their engineering careers.

INDUSTRY CAPSTONE PROGRAM
UW students and companies partner to tackle real-world, multidisciplinary engineering problems. Sponsors provide projects and support to teams of students who design innovative solutions.

UW ENGINEERING is ranked 18th among all engineering schools with more than half of its departments ranked in the top 20 of their respective fields.
In 2017, Reuters ranked the UW as the most innovative public university in the U.S.

85 companies started in the last five years by UW engineering students and faculty or technology.

Over 50% of UW startups in FY18 came from the College of Engineering.

UW sponsored research totals over $1B annually.

From 2012-2017, 1,128 innovations reported and 1,824 patents filed.

Engineering research expenditures totaled $153M in FY18.

In FY18, industry sponsored research for UW Engineering totaled $14.6M.

A national leader: 24.2% of our faculty are women compared to 16.9% nationally

ADVANCE – Supports female faculty and cultural change in academic science and engineering careers

DO-IT (Disabilities, Opportunities, Internetworking, Technology) – Promotes inclusion and success for people with disabilities through technology and education

EAC (Engineering Academic Center) – Supports students in building skills in math, physics and chemistry through workshops and tutoring

Math Academy – Supports rising high school seniors from diverse backgrounds who wish to study engineering in an intensive summer program

MSEP (Minority Scholars Engineering Program) – Recruits and retains underrepresented students in engineering

PEERs (Promoting Equity in Engineering Relationships) – Increases diverse participation in the College of Engineering through a 3-credit seminar and community leadership program

STARS (Washington STate Academic RedShirt in Engineering) – Brings low-income, highly motivated Washington state high school graduates to the UW (and WSU) to study engineering

WiSE (Women in Science & Engineering) – Provides recruitment and retention programs for women in science and engineering
STRATEGIC RESEARCH AREAS

ENVIRONMENT

Freshwater@UW – A collaboration between CoE, UW Tacoma and the College of the Environment to coordinate research and funding on high-profile water-related problems at the local to international scale.

Mountains to Sea – An initiative of Freshwater@UW to facilitate water sustainability research at UW that addresses work relevant to the PNW.

ENERGY

Clean Energy Institute (CEI) – Accelerating the creation of a clean energy economy and growing Washington's capacity for a sustainable environment.

Pacific Marine Energy Center – A consortium of universities focused on the responsible advancement of marine energy.

MANUFACTURING

Washington Nanofabrication Facility (WNF) – A full service micro and nanotechnology user facility and the largest public access fabrication center in the Pacific Northwest, with 15K square feet of laboratories, clean rooms and user spaces.

Boeing Advanced Research Center (BARC) – Boeing-employed affiliate instructors work with faculty and students on joint research projects in the manufacturing and assembly of aircraft and spacecraft structures.

Rapid Deployment of Designer Materials in Devices and Smart & Resilient Infrastructure – A strategic research initiative to create and deploy designer materials enabled by additive manufacturing.

Nanotechnology Engineering & Science (NanoES) – Providing education and research infrastructure, this program develops technologies to measure and manipulate at the nanoscale.

Digital Manufacturing and Design Innovation Institute (DMDII) – A public-private partnership to create tools and technologies to integrate digital efforts in manufacturing to increase the competitiveness of American manufacturing.

HEALTH

Engineering Innovation in Health (EIH) – A strategic research initiative to train the next generation of engineers and clinical fellows to develop technologies that improve care and reduce cost.

Center for Neurotechnology (CNT) – An NSF-funded Engineering Research Center advancing the integration of technologies with the human neural system by bringing together leaders in robotics, neuroscience, computer science and other disciplines.

INFRASTRUCTURE AND SMART CITIES

Supply Chain and Transportation Logistics Center (SCTL) – The first of its kind in the Pacific Northwest, the center unites industry, transportation infrastructure agencies and policy makers for supply chain, transportation and logistics research and education.

RAPID Natural Hazards Reconnaissance Facility – Funded by an NSF grant, the facility houses state-of-the-art equipment to support the collection of perishable data in the aftermath of earthquakes and wind hazards with the goal of developing more resilient communities.

The Pacific Northwest Transportation Consortium (PacTrans) – Serves as an engine of transportation research, education and workforce development in the PNW.

FACULTY

269
FACULTY
(24.2% women)

ACHIEVEMENTS

30
Sloan Foundation Research Awards

2
MacArthur Foundation Fellows

128
NSF Young Investigator/Early Career Awards since 1984
TRAILBLAZERS

Graduates of the College of Engineering have pioneered efforts in technology, aerospace and government. Here are some outstanding examples of how our alumni are changing the world:

Yaw Anokwa (Ph.D. CS ’12) is the creator of Open Data Kit, a free and open-source software developed for resource-constrained environments and one of the most widely used tools for data collection in the world.

Jeet Bindra (M.S. ChemE ’70) is the former president of global manufacturing for Chevron Corp.; he led the development of a pipeline from the Tengiz Field in Kazakhstan to the Black Sea.

Suzanna Darcy-Hennemann (B.S. AA ’81) is a record-breaking chief-pilot, director of flight training and designated captain of multiple jets at The Boeing Company; and the first woman to serve as a Boeing test pilot.

Jeff Dean (Ph.D. CS ’96) is the current lead of Google's AI division; since joining Google in 1999, he has contributed to significant developments in Google’s systems and underlying infrastructure.

Jeremy Jaech (M.S. CSE ’80) is an accomplished entrepreneur who has co-founded software companies including Aldus (acquired by Adobe), Visio (acquired by Microsoft) and Trumba; he serves as UW regent.

Peter Janicki (M.S. ME ’89) founded Janicki Industries, pioneering composite manufacturing with applications in aerospace, wind-energy and transportation industries.

Sally Jewell (B.S. ME ’78) served as the 51st U.S. Secretary of the Interior under President Barack Obama. Previously, she was the president and CEO of REI, the nation's largest consumer cooperative.

Dennis Muilenburg (M.S. AA ’90) is chairman, president and CEO of The Boeing Company. Since 1985, he has held a progression of positions at Boeing in both commercial and defense businesses.

LEADERSHIP

Michael B. Bragg
Frank & Julie Jungers Dean of Engineering

Greg Miller
Vice Dean

Pedro Arduino
Associate Dean of Infrastructure

Brian Fabien
Associate Dean of Academic Affairs

Eve Riskin
Associate Dean of Diversity & Access

Judy Mahoney
Associate Dean of Advancement

FINANCING ENGINEERING

Sources of Funds

- Tuition: 14%
- Investment Income: 2%
- Auxiliary: 6%
- State Appropriations: 8%
- Research Cost Recovery: 6%
- Grants & Contracts: 47%
- Gifts and Discretionary: 18%

ABOUT THE UW

State Funding: State dollars represent 5 percent of the UW's budget

Research Funding: The UW receives more federal research dollars than any other public university in the nation. In FY18, the UW received $1.04 billion in total research awards.

Access: One in every four current UW undergraduates from Washington state has tuition and fees fully covered by the Husky Promise scholarship program. This makes our university one of the most economically diverse in the nation.