OUR MISSION

We educate and develop tomorrow’s leaders to solve the world’s biggest problems.

Our People

Our students receive an exceptional education through a strong technical foundation, refined communication skills, group project work and hands-on research opportunities. The demand for well-rounded electrical engineers continues to grow each year. UW EE is responding to this growth with the hiring of five new faculty in the 2015-2016 academic year. We are committed to merit-driven diversity to broaden participation in STEM, and exceed the national average of women in electrical engineering — with over 23 percent of our undergraduate degrees awarded to women compared to a national average of 12.5 percent.

Our Impact

One of our core strengths that differentiates us from our peers is our dedication to fostering an innovative ecosystem. By promoting an entrepreneurial mindset, we continue to cement our reputation as an innovation hub through partnerships with industry, government and regional sponsors. Our world class research takes an interdisciplinary approach to solving complex problems in energy, health, technology and the environment to help improve people’s lives.
Our reputation is based on the quality of our faculty and their contributions to the education, research and leadership of the department. UW EE Faculty are frequently honored nationally and internationally for excellence in building a culture of collaboration, innovation and mentorship. The department continues to keep pace with the demand for top faculty with five new hires in the 2015-2016 academic year. As a result, attracting, retaining and rewarding faculty remains one of the highest priorities for our department.

#19 BEST GRADUATE SCHOOL IN 2017 (U.S. News & World Report)

UNDERGRADUATE

558
2015-2016 Enrollment

GRADUATE

348
2015-2016 Enrollment

DIVERSITY

UW EE exceeds the national average of women in the field for undergraduate and graduate degrees awarded and in the number of women in tenured and tenure-track faculty positions.

<table>
<thead>
<tr>
<th>WOMEN</th>
<th>INTERNATIONAL STUDENTS</th>
<th>UNDERREPRESENTED MINORITIES</th>
<th>TRANSFER STUDENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>23.3%</td>
<td>15.9%</td>
<td>12.5%</td>
<td>6%</td>
</tr>
<tr>
<td>12.4%</td>
<td>15.9%</td>
<td>12.5%</td>
<td>6%</td>
</tr>
</tbody>
</table>

Percentage of undergraduate degrees awarded to women
Percentage of women in tenured/tenure-track faculty

COMPANIES HIRING EE GRADS

<table>
<thead>
<tr>
<th>ENERGY</th>
<th>COMMUNICATION</th>
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</thead>
<tbody>
<tr>
<td>ENVIRONMENT</td>
<td>GLOBAL HEALTH</td>
</tr>
<tr>
<td>HEALTHCARE</td>
<td>SECURITY</td>
</tr>
</tbody>
</table>

| PERKINS COIE | U.S. NEWS & WORLD REPORT |
| MICROSOFT | BEST GRADUATE SCHOOL |
| GOOGLE | IN 2017 |
| AMAZON | NATIONALLY AVERAGE |
| VERIZON | 2015-2016 ENROLLMENT |
| NATIONAL INSTRUMENTS | PERCENTAGE OF UNDERGRADUATE |
| PUGET SOUND ENERGY | DEGREES AWARDED TO WOMEN |

Graduate student Vikram Iyer poses with the Interscatter device, which enables smart contact lenses, medical implants and credit cards to "talk" to smartphones and smartwatches using Wi-Fi.
ENTREPRENEURSHIP HUB

SUCCESSFUL STARTUPS FOUNDED AT UW EE:

Aquarium - Combines robotics, automation and programming to streamline molecular/microbiology experiments
SNUPI - Small, low power sensors for home monitoring systems
BluHaptics - Relays force, vibration and motion to control underwater robots
PotaVida - Utilizes sunlight and an electronic indicator to purify water

FOSTERING AN INNOVATION ECOSYSTEM:

EARLY EXPOSURE TO BUSINESS CONCEPTS
The EE Entrepreneurial Capstone allows undergraduate students to engage with industry partners to achieve real-world impact in a three course sequence during their senior year.

STATE-OF-THE-ART FACILITIES
In addition to access to MakerSpace to work with their hands and build prototypes, students also have the Washington Nanofabrication Facility, one of the largest public access fabrication centers in the Pacific NW right here on campus, led by EE Professor Karl Böhringer.

MENTORSHIP
As one of the leading startup hubs at UW, EE faculty guide students on how to turn their ideas into companies. In addition, UW’s collaborative innovation hub, CoMotion, allows Presidential Innovation Fellows to serve as mentors to budding entrepreneurs across campus.

RESEARCH AREAS

Computing & Networking
- Computer engineering and architecture
- VLSI
- Embedded systems
- Wireless communication
- Cybersecurity

Power & Energy Systems
- Smart grid
- Integration of renewable energy sources
- Grid security
- Power system economics
- Energy harvesting

Robotics & Controls
- Surgical and biorobotics
- Smart Cities
- Haptics
- Network control systems

Data Sciences
- Machine learning
- Statistical signal processing
- Speech and natural language processing

Biosystems
- Synthetic biology
- Neural engineering
- Medical devices
- Mobile health

Photonics & Nano Devices
- Nanoscale materials and structure
- MEMS

IN 2016

3 NEW STARTUPS
22 PATENTS ISSUED
83 PATENT APPLICATIONS
45 REPORTED INNOVATIONS

### TOTAL: $18,975,000

66% GOVERNMENT (FEDERAL)
19% INDUSTRY (DOMESTIC)
13% NON-PROFITS/INDIVIDUALS
1% GOVERNMENT (STATE)
1% GOVERNMENT (FOREIGN)

Most Innovative Public University (Reuters)
"Innovation at UW EE is exemplified by our outstanding faculty and by the exceptional group of students they advise and mentor. We continue to build an ever-growing, collaborative innovation ecosystem and provide opportunities for students to gain valuable real-world experiences."

RADHA POOVENDRAN, PROFESSOR AND CHAIR