opportunities for students to gain valuable real-world experiences."

Innovation at UW EE is exemplified by our outstanding faculty and by the exceptional group of students they advise and mentor. 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 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.
Graduate Student Vilen Asenov poses with the InteracT device, which enables smart contact lenses, medical implants and credit cards to “talk” to smartphones and smartwatches using Wi-Fi.

**STUDENTS**

**DEGREE PROGRAMS**

- **BSEE** Bachelor of Science
- **BS/MS** Combined Bachelor’s and Master’s
- **Ph.D.** Doctorate
- **MSEE** Master of Science
- **Non-Degree** Non-Degree Options to Refine Skills
- **PMD** Professional Master’s Program

**AVERAGE GPA FOR INCOMING UNDERGRADUATE STUDENTS**

- **3.6**

**LAUNCHING CAREERS**

Our nationally-acclaimed curriculum provides solid grounding of the fundamentals of technical problem solving in the first year. This allows students maximum flexibility to choose their own concentrations in the second year based on their areas of interest.

**AREAS OF IMPACT**

- **ENERGY**
- **ENVIRONMENT**
- **HEALTHCARE**

**COMPANIES HIRING EE GRADS**

- **BOEING**
- **MICROSOFT**
- **GOOGLE**
- **AMAZON**
- **VERIZON**
- **PHILIPS MEDICAL INSTRUMENTS**
- **PNW NATIONAL LABORATORIES**

**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%</td>
<td>6%</td>
<td>18%</td>
<td>6%</td>
</tr>
</tbody>
</table>

**FACULTY**

- **52** CORE FACULTY
- **82** AFFILIATE FACULTY
- **36** ADJUNCT FACULTY

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.

**Entrepreneurship Hub**

**SUCCESSFUL STARTUPS FOUNDED AT UW EE:**

- **Aquarium** - Combines robotics, automation and programming to streamline molecular/microbiology experiments
- **SNAP 3** - Small, low power sensors for home monitoring systems
- **Blutactics** - 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 CoMotion 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 building 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 birobotics
  - Smart Cities
  - Haptics
  - Network control systems
- **Photonics & Nano Devices**
  - Nanoscale materials and structure
  - MEMS
- **Data Sciences**
  - Machine learning
  - Statistical signal processing
  - Speech and natural language processing
- **Biosystems**
  - Synthetic biology
  - Neural engineering
  - Medical devices
  - Mobile health

**RESEARCH FUNDING**

**IN 2016**

- **3** NEW STARTUPS
- **22** PATENT APPLICATIONS
- **45** REPORTED INNOVATIONS

**ENTREPRENEURSHIP HUB**

**#1 MOST INNOVATIVE PUBLIC UNIVERSITY (Reuter)**

**TOTAL: $18,975,000**

**2016**

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