Innovative Programs

The Electrical & Computer Engineering Department at Boise State University is proud to offer a Doctor of Philosophy (PhD) program as well as a Master of Science and a Master of Engineering in ECE. The Department’s Doctor of Philosophy program was made possible thanks to a generous gift from the Micron Technology Foundation. The doctoral program has contributed greatly to the Department’s ability to provide students and industry a variety of quality, research-intensive academic programs.

The strength of our department isn’t confined to the classroom either. In addition to consistent excellence in graduate education, our students can participate on a variety of robust research teams.

We also fund our full-time Master of Science and doctoral students at 100%, which means we pay your tuition and health care costs as well as a salary of up to $27,000 per year.
We provide a host of paid research opportunities. Research teams are currently working on projects in amorphous electronics, CMOS photonics, electrical energy storage, wireless sensor networks, nanoionic electronics, neuromorphic interfaces, plasma devices, thermal-electric devices, animal biometrics, neuromorphic architectures, and compressive sensing, just to name a few.

Our culture of innovation fosters connection on an international scale, engaging the global research community as well as local industry. Currently, our researchers are pursuing interdisciplinary projects with federal and private partners including NASA Jet Propulsion Labs, Boeing, the Department of Defense, the National Science Foundation, Air Force Research Labs, and the Department of Energy.

To learn more about our expanding research network and the opportunities available for students, visit us online at http://coen.boisestate.edu/ece.
Excellent Facilities

The Electrical & Computer Engineering Department houses robust research facilities in several areas of focus. One of our premier facilities, the Nanoionic Materials and Devices Lab, centers on the characterization of the structure- and radiation-induced effects in chalcogenide glasses doped with Ag, as well as formation of nanoionic devices based on them.

The Advanced Memories & Reconfigurable Logic Lab was established to explore and develop alternative memory and logic-based technologies. This design-to-product lifecycle venture features full spectrum technology support, from system simulation and exploratory prototyping, to partnerships targeting product development.

Hartman Systems Integration Lab is the center for sensor research at Boise State, including sensor systems, wireless sensor network, and sensor data fusion. In this lab, students are able to take a system from idea to working prototype with equipment such as an in-house printed circuit and 3D ABS enclosure prototyping capabilities.

More information about this lab and others is on our website:  http://coen.boisestate.edu/ece/research
Electrical & Computer Engineering students at Boise State have excellent access to amazing faculty, including three NSF Career recipients, a DoD Young Investigator, and an IEEE fellow. Plus, the average student-to-faculty ratio is just five to one!

Our faculty are dedicated to student learning and their commitment extends far beyond the classroom. Graduate students at Boise State take their learning to the lab where our focus on research creates rich opportunities for meaningful interaction between faculty and students.

Our innovative programs require interdisciplinary collaboration. Current projects include faculty from an array of disciplines, including physics, computer science, biology, materials science, chemistry, art, and biomedical engineering.

These collaborative efforts provide a broad network that students can leverage as they build towards the next step in their careers.
Our Campus

The Boise State campus is located in the heart of Boise, Idaho’s capital city and center of commerce. From this downtown location, we enjoy many prosperous connections with the local high-tech industry. Plus, mountains, forests, and open rangelands surround Boise, with the beautiful Boise River running right along the northern edge of campus. Students here enjoy a wide range of outdoor recreational activities, including biking, hiking, camping, fishing, skiing, and snowboarding. Life isn’t just about the great outdoors though. Concerts, plays, and recitals are held on campus throughout the year. Students are just a ten-minute walk from downtown where our thriving cultural scene features museums, cafes, restaurants, pubs, and other businesses that cater to a college crowd.
We encourage outstanding students to apply at any time. Doctoral applicants should also ask us about a program consultation and plan to attend our annual recruiting weekend in March.

Our priority application deadline for fall admission is January 15. Those seeking admission for spring should submit all application materials by July 15.

Admissions Quick Tips:
1. Explore research areas and identify an advisor
2. Ph.D. applicants: Be sure to ask us about a Program Consultation
3. Fill out the online graduate application and pay your one-time non-refundable application fee (waived with Program Consultation)
4. Submit all required application materials:
   - Official transcripts
   - GRE scores (BSU GRE code: 4018)
   - TOEFL or IELTS (if required)
5. Upload your supplemental materials:
   - Two-page statement of interest
   - Resume or curriculum vitae
   - Three letters of recommendation
For More Information

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