Western Michigan University’s Electrical and Computer Engineering (Ph.D.) is designed to provide students with advanced electrical/computer engineering education and research skills.

The program engages doctoral students in independent research within the fields of electrical and computer engineering, preparing them for research and development positions in the rapidly growing information and electronics sectors.

The program is offered within an environment of engagement, innovation and leadership.

Our faculty are internationally recognized experts in their field.

National and international research collaboration opportunities exist, as do academic teaching opportunities.

Teaching and research assistantships are available.
Teaching, Research, and Program Focus Areas
Electrical and computer engineering faculty have a strong track record in funded research and scholarly activity. Current faculty research areas include real-time embedded systems, reconfigurable digital systems, biomedical engineering, signal processing, image processing, sensors and nanotechnology, biological neural networks, fuzzy logic, energy conversion, power electronics systems, communications and networking, and control systems, and semiconductor materials.

The department has seven instructional laboratories in electric circuits, digital logic, energy conversion systems, microcomputer systems and programmable digital systems, and digital/analog electronics. In addition, there are six dedicated laboratories for student and faculty research. These labs include radio frequency shield rooms, a digital signal-processing lab, an image processing lab, a RF communications and RFID lab, an intelligent fuzzy controllers lab, a smart sensors and structures lab, and a semiconductor processing facility.

Admissions
Applicants must possess a master’s degree in electrical or computer engineering, with a minimum 3.0 grade point average. Exceptional applicants with a master’s degree in other closely related quantitative fields such as engineering, mathematics, physics, or computer science will be considered on a case by case basis, after completing a prescribed set of prerequisite courses.

Applicants should submit results of the GRE General Test, three recommendation letters from faculty familiar with their work, and a personal statement of intended research goals, intended academic fields(s) of interests and a summary of any previous research experiences.

Graduate Assistantships/Associateships
About ten Graduate Assistantships are available annually. The selection process is very competitive.

Contacts
Dr. Damon Miller, Director of Graduate Studies
Electrical and Computer Engineering Department
damon.miller@wmich.edu

Department of Electrical and Computer Engineering:
(269) 276-3150

Western Michigan University
One of the top-100 public universities in the United States, Western Michigan University offers many nationally known graduate programs, including 29 doctoral and 64 master’s degrees. More than 20 percent of its 25,000 students are enrolled in graduate course work.

Kalamazoo
With a population of more than 325,000, Kalamazoo is the sixth largest metropolitan area in Michigan and among the 150 largest in the country. Kalamazoo is rated one of the 25 best cities in the country for young college graduates, and is located midway between Chicago and Detroit.