NDEE
Graduate Program
At NDEE, you will find a warm and welcoming, close-knit community of supportive professionals. Our dedicated graduate staff collaborates across campus to serve the whole student in every student.

Our world-class faculty spend one-on-one time with students to ensure their research is successful and on-track.

Our state-of-the-art facilities are attended by full-time staff. This benefit, in addition to our department’s collaborative working style, affords students the opportunity to work in impeccable laboratories, which equates to quality research, done efficiently.

NDEE’s generous stipends coupled with South Bend’s low cost of living, provides our students a rich quality of life. Grad life at NDEE is positively charged with daily opportunities for student recreation and engagement.

The mission of the Biomedical Photonics Lab is to improve medical care, particularly cancer care, by developing advanced imaging technologies. Our students create innovative medical devices that use safe levels of light to noninvasively interrogate tissue deep beneath the skin. This work, while applicable to many diseases, is presently focused on breast cancer risk assessment, screening, differential diagnosis and predicting individual response to chemotherapy.

The goal of the Discover (Distributed Cooperative Systems Research) Lab is to build foundations toward scalable formal design theory to enable complex systems—such as IoTs, smart manufacturing, future transportation networks, and power grids—to function reliably in uncertain and dynamic environments. Using multi-robot systems and human-machine collaboration as working examples, students test design principles for complex systems.
In my grad school decision process, having an advisor that I connected with and felt would support my abilities as both a student and a rising researcher, was critical. I chose to accept NDEE’s offer because I found that both my advisor and the academic environment here were very welcoming and fostered a sense of open collaboration. In addition, it’s hard to beat the low cost of living in South Bend. You don’t have to worry about having enough money to survive comfortably and financially through grad school.

John Haug
2nd year
researching plasmonics and optical antennas with the Nanophotonics group, advised by Professor Anthony Hoffman

At NDEE I’ve connected with many people across ranks and disciplines who generously and enthusiastically share their time and knowledge. Their collaborative and inclusive spirit fosters scientific advancement while also celebrating diversity. This close-knit community has afforded me several good friendships with peers from around the world.

Karla Gonzalez-Serrano
5th year
studying nanobiotechnology with the NDnano group, advised by Professor Alan Seabaugh
Entrepreneurial endeavors are encouraged and supported at NDEE through partnership with the IDEA Center, a collaborative innovation hub dedicated to expanding the technological and societal impact of the University's innovations.

NDEE students are well prepared to articulate their research to industry experts around the globe. Our full-time, fully staffed Office of Grants and Fellowships and University of Notre Dame Career Center, offer students a rare perk of specializing in and providing a customized graduate experience. Grants for conferences, travel, training and personal recreation are available as well as world-class professional development through fellowships, mentorships, internships and professional training.

The combination of all these benefits makes NDEE home to one-of-kind community of bright and motivated students. Even after earning your degree, the advantages offered by NDEE continue as you are forever connected to the exclusive and thriving Notre Dame alumni network.

The Wireless Lab provides an environment for students, faculty and industry to collaborate on evolving wireless technologies and applications. Developing advances in system design, prototyping, data collection and analytics are at the forefront of the lab’s research mission.

The Notre Dame Nanofabrication Facility (NDNF) houses a comprehensive suite of state-of-the-art equipment for designing and manufacturing integrated circuits and devices with geometries as small as a few nanometers. Our researchers—which include internal and external academic and corporate users—explore a wide range of electronic and emerging materials and processes. The NDNF also supports technologies beyond electronics, such as microfluidic technologies for medical applications and micron-scale mechanical device fabrication.

To learn more about these and other research opportunities offered by NDEE, visit: ee.nd.edu/research
What has consistently stood out to me about NDEE’s graduate program is the faculty and the facilities. Our faculty are expert researchers but are also friendly and collegial. They go to extraordinary lengths for the well-being of their students. On top of that, the facilities and equipment are excellent and maintained by a full-time staff of great technicians who bring a wealth of industry experience to the lab. That translates to a great research environment.

Mike McConnell
5th year
researching resonant MEMS structures, nanothermal couples and CMOS reversible computing in the IC Fabrication Lab, advised by Professors Alexei Orlov and Greg Snider

NDEE’s generous stipends coupled with South Bend’s cost of living made it possible for my wife—working toward a nursing degree—and I to both be in school. That’s a pretty powerful blessing. Being a part of a world-class education center, with all the research equipment, collaborations and recognition that goes along with it, has made my experience here top-notch.

Thomas Zirkle
4th year
studying cryogenics in the Cryogenics Lab, advised by Professors Greg Snider and Alexei Orlov
For more information about the graduate program in electrical engineering, waiving of application fees and items regarding graduate life at the University of Notre Dame, please contact our Director of Graduate Studies.

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