



## Applied Physics Program

### THE POWER

The University of Michigan has a distinguished record of innovation in applied physics. As an interdisciplinary graduate program, Applied Physics brings the fundamentals of physical theory together with its applications to modern technology and practical “hands-on” training in the research laboratories. Applied Physics benefits from the university’s acclaimed multidisciplinary research environment by providing dynamic graduate training and research that lays a solid base in the fundamentals of modern physics, while also exploring applications in the context of various branches of engineering, biological and medical science, chemistry, geology, environmental science, natural resources, and public policy. With access to the most advanced facilities and foremost scholars and scientists across the campus, our students gain the knowledge and skills to apply and advance concepts in emerging technologies. Our graduates are highly sought to fill leadership positions in research, industry, academia, and government.

## THE OPPORTUNITIES

Applied Physics at Michigan is on the cutting edge in research and technology. Promotion of interdisciplinary studies in applied physics that connects physics across many disciplines is increasingly important in developing intellectual synergy. Our students have the opportunity to pursue research in such areas as nanoscience and technology, condensed matter and material physics, optics, energy, plasma and chemical physics, atomic and molecular physics, biophysics, photonics, quantum electronics and information, solid state electronics synchrotron radiation and ultrafast science. Our vision is that these scholars will become the entrepreneurs of the future, the saviors of the environment, the providers of clean energy, and the engineers of the new economy.

## THE IMPACT

To build and grow in this vital area, the Applied Physics Program must recruit the world's top scientists, teachers, and graduate students to Michigan. To do so, we must make Michigan more accessible for talented students and provide opportunities to explore the application of physics in various career and educational paths.

### **Graduate Fellowships**

*\$1M endowed/\$50,000 annually*

The Applied Physics Program attracts excellent graduate students from diverse backgrounds who are interested in interdisciplinary research at the interface of physical sciences, engineering, and medicine. Named fellowships for graduate students will serve as a powerful recruitment and retention tool. Awards will focus on areas where there is high potential for societal impact, such as the environment, health care, and energy policy.

### **Bridge to Graduate Studies for Underrepresented Students**

*\$400,000 annually*

The past success of pilot programs at Michigan that recruit talented undergraduates from colleges that historically serve underrepresented students to encourage them to complete their junior and senior years at U-M demonstrates the immense value of providing these opportunities. Gifts to the Applied Physics bridge program would support undergraduates who are transitioning into graduate studies in interdisciplinary areas in Applied Physics. We envision a program with 10 to 15 bridge students per year.



## **Applied Physics Seminar**

***\$5,000 to \$10,000 annually***

Topics for a weekly interdisciplinary seminar will be broadly drawn from across campus to educate students about the incredible range of opportunities for research collaborations available at U-M in an effort to bring a community of scholars together from all over campus to learn about applications of physics. We envision this as a continuation of the highly successful Applied Physics lunch seminars, for which no funding currently exists.

### **WAYS TO FUND YOUR GIFT**

Your gifts of cash, pledges, or appreciated securities change lives. Wills, estate, and planned gifts allow you to create a lasting legacy that will enable the best and brightest minds to experience a liberal arts education, solve problems in a changing world, and yield ideas and innovations that will make a difference in Michigan and around the globe.

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### **CONTACT INFO**

#### **LSA Advancement**

*College of Literature, Science, and the Arts*

101 N. Main Street, Suite 850

Ann Arbor, Michigan 48104

P.734.615.6333 // F.734.647.3061

*[lsa.umich.edu](http://lsa.umich.edu)*

*[lsa.umich.edu/appliedphysics](http://lsa.umich.edu/appliedphysics)*