DEPARTMENT OVERVIEW
The Department of Physics has a strong tradition of graduate study and research in astrophysics; atomic, molecular, and optical physics; condensed matter physics; high energy and particle physics; plasma physics; quantum computing; and string theory. There are many facilities for carrying out world-class research (https://www.physics.wisc.edu/research/areas/). We have a large professional staff: 45 full-time faculty (https://www.physics.wisc.edu/people/faculty/) members, affiliated faculty members holding joint appointments with other departments, scientists, senior scientists, and postdocs. There are over 175 graduate students in the department who come from many countries around the world. More complete information on the graduate program, the faculty, and research groups is available at the department website (http://www.physics.wisc.edu).

Research specialties include:

THEORETICAL PHYSICS
Astrophysics; atomic, molecular, and optical physics; condensed matter physics; cosmology; elementary particle physics; nuclear physics; phenomenology; plasmas and fusion; quantum computing; statistical and thermal physics; string theory.

EXPERIMENTAL PHYSICS
Astrophysics; atomic, molecular, and optical physics; biophysics; condensed matter physics; cosmology; elementary particle physics; neutrino physics; experimental studies of superconductors; medical physics; nuclear physics; plasma physics; quantum computing; spectroscopy.

PH.D. DEGREE DETAILS
The Ph.D. degree requires successful completion of advanced course work in physics (required core coursework), completion of a minor, and passage of the qualifying and preliminary examinations. However, the Ph.D. is primarily a research degree, awarded only upon completion of substantial original research. This broad range of research opportunities makes the department especially attractive to beginning students who have not yet chosen a field of specialization. The program provides the background, experience, and credentials needed for employment as a professional physicist in research or education. All admitted Ph.D. students typically receive financial support in the form of teaching or research assistantships and fellowships.