

Ph.D. in Engineering Physics

Housed in the Department of Physical Sciences in the College of Arts & Sciences, the Ph.D. in Engineering Physics provides advanced education and research opportunities to exceptional students.

Students work in campus laboratories such as the Space and Atmospheric Instrumentation Lab, Engineering Physics Propulsion Lab, 1-meter Ritchey-Chrétien Reflecting Telescope, Space Physics Research Lab and the Laboratory for Exosphere and Near-Space Environment Studies (LENSES).

Research emphasizes the measurement, theory and modeling of the near-space, space-neutral and plasma environment; studies of the sun and stellar activity; orbital stability and dynamics; engineering spacecraft instrumentation and remote sensing measurements; and the design and implementation of electro-optical and radar systems.

Areas of research include:

- Aeronomy/Upper-Atmospheric Physics
- Dynamics and Control of Aerospace Systems
- Remote Sensing
- Space Physics
- Space Robotics/Autonomous Systems
- Space Weather
- Spacecraft Instrumentation
- Spacecraft Power and Thermal Control
- Spacecraft Systems Engineering

The department houses more than 20 faculty members, and assistantships and fellowships are available to well-qualified students.