



# Space Physics

## Space Physics at UNH

SINCE THE DAWN OF SPACE EXPLORATION, UNH space scientists, engineers, and students in the Institute for the Study of Earth, Oceans, and Space (EOS) have worked on mission design, instrument construction, and data analysis for a wide range of spacecraft, as well as complementary theory and modeling.

The Space Science Center, housed at EOS, is engaged in research and graduate education in all the space sciences, with studies ranging from the ionosphere to the Earth's magnetosphere to the local solar system and out to the farthest reaches of the universe.

Emerging cross-disciplinary studies are investigating the interlinked physical processes at the frontier of the dynamic Sun-Earth system.

While graduate students conduct their research under the auspices of EOS, they earn Master of Science and Ph.D. degrees in space physics or astrophysics through the Department of Physics within the College of Engineering and Physical Sciences (CEPS).

## Fields of Study

Currently there are 27 EOS faculty with areas of research that include magnetospheric and ionospheric physics, astrophysics, gamma ray astronomy, solar-terrestrial physics, atmospheric sciences, space plasma physics, cosmic ray physics, and computer engineering.

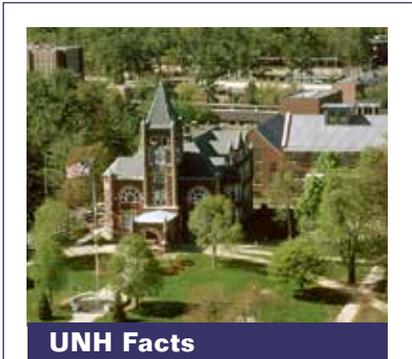
Investigations of the Earth's environment in the solar system look at space as a laboratory for plasma physics. We conduct theoretical and satellite investigations of the solar-terrestrial radiation environment. High-energy astrophysics investigations involve the sensing of energetic astrophysical objects with ground, balloon, and satellite detectors.

Satellites from NASA missions are still providing data for ongoing analysis. Among recent missions that carry EOS-related instruments are the Magnetospheric Multiscale Mission (MMS), FIREBIRD II, the Van Allen Probes, the Lunar Reconnaissance Orbiter, the Interstellar Boundary Explorer, and NOAA's GOES-R.

Students pursuing M.S. and Ph.D. degrees play an active role in these exciting missions..

For information on programs and how to apply, visit Space Science Center at <http://www.eos.unh.edu/grads/sscgrad.shtml> UNH Graduate School at <http://www.gradschool.unh.edu>.

Contact: [space.science@unh.edu](mailto:space.science@unh.edu)



### UNH Facts

- EOS is among the top-ranked U.S. university centers in NASA funding and is a NASA "Center of Excellence" in solar-terrestrial theory.
- UNH is among the top three universities in the nation for the study of space plasma physics. UNH scientists and students have been involved in space instrument design & data analysis for more than 30 space missions over the past 60+ years.

[www.eos.unh.edu/agu](http://www.eos.unh.edu/agu)

