Only 12 public universities in the United States have the distinction of holding land-, sea-, and space-grant status. The University of New Hampshire is one of them. Researchers at UNH are renowned for their entrepreneurial spirit, commitment to innovative problem solving, and high-impact results. You may be surprised at the depth and diversity of the University’s research leadership.

New Hampshire’s flagship research university supports…
UNH research promotes partnerships with state and federal agencies, private industry, schools, and nonprofit organizations. The immediate impact of these partnerships is felt both locally and worldwide.

- Members of Congress seek out UNH researchers to provide expert testimony on climate science, oil spills, ocean mapping, family violence, and child welfare.
- The University’s 80+ research centers and institutes serve as hubs of global collaboration on complex earth systems, data networking, economic development, sustainability, biosciences, and other fields.
- UNH researchers are working closely with public schools to enhance literacy, graduation rates, and achievement in science, technology, and mathematics.

UNH faculty help foster the next generation of researchers by sharing their expertise at programs such as Tech Camp, a summer camp for middle and high school students.
The Space Science Center (SSC) at the University’s Institute for the Study of Earth, Oceans, and Space (EOS) is one of the nation’s top three space plasma physics centers and a center of excellence in theoretical solar-terrestrial research.

- Part of NASA’s 21st century Vision for Space Exploration, the Cosmic Ray Telescope for the Effects of Radiation (CRaTER) includes seven instruments designed at UNH to gather data facilitating human exploration of the moon.
- Astronauts, aircraft crews, and satellite instruments will be better protected from risky “space weather” thanks to new instruments UNH is developing for NOAA and NASA satellites.
- UNH physicists played key roles in discovering the existence of neutrons in solar radiation, leading to new technology that can be used by U.S. border agents, TSA agents, the U.S. military, and others in detecting nuclear explosives.

UNH-designed instruments orbiting the Moon collect imagery that will be compiled into a detailed 3-D map of the lunar surface.
UNH excels in marine science and ocean mapping. The Center for Coastal and Ocean Mapping/Joint Hydrographic Center with NOAA is the world’s pre-eminent developer of hydrographic and ocean mapping technologies and applications.

- UNH leads the world in the development of ocean mapping technology that has strengthened the U.S. claim to an extended continental shelf and made shipping lanes safer.
- Oil spill cleanup strategies researched and developed by UNH environmental scientists and engineers shaped responses to the 2010 crisis in the Gulf of Mexico.
- New sonar and “catch” sensing technologies developed by UNH marine scientists to study imperiled cod populations in New England waters have also helped commercial fishermen reduce fuel costs and habitat disturbance.
- The Center for Ocean Renewable Energy has one of the only permitted tidal energy research sites in the U.S.
to our communities and families…

UNH is a national authority on programs, policies, and trends affecting vulnerable children, families, and communities.

- **Enhancing Child Safety and Online Technologies**, written by faculty from the UNH Crimes Against Children Research Center, was delivered to the nation’s 52 attorneys general as part of a year-long investigation of tools and technologies to create a safer environment for youth on the Internet.

- The Institute on Disability at UNH used a grant from the U.S. Department of Education to launch the National Inclusive Education Initiative (NIEI), a national project that focuses on best practices in inclusive education for students with autism and related disabilities.

- Researchers at the Carsey Institute briefed lawmakers in Washington, D.C., and provided critical information to Congress as it considered re-authorization of the Child Nutrition Act and how the Act will affect families living in poverty.

- The New Hampshire Institute for Health Policy and Practice provides management and research support for the N.H. Citizens Health Initiative to promote improved access, quality, and affordable health care.
A national leader in sustainability and ecosystems science, UNH recently ranked first in the U.S. for scientific impact in forestry. University research touches people in New Hampshire and beyond—supporting healthy food, forests, and communities.

- The UNH Organic Dairy Research Farm, a boon to small family farms, is the first of its kind at a land-grant university and conducts research to help farmers.
- Research from the UNH Cooperative Extension supports 3,100 New Hampshire farms.
- UNH research informs a timber industry that generates $46 million for landowners.
- UNH researchers are working with local, state, and federal officials and private landowners to thwart the Asian longhorned beetle’s harm to forests and the timber industry.
- The Green Launching Pad began in 2010 as a partnership between UNH, the state of New Hampshire, and industry to foster “green” entrepreneurship. Five firms are already working with UNH with at least five more on the way.
- The N.H. Innovation and Commercialization Center accelerates early stage companies, some of which began with UNH research.
In 2010, the University received $120,670,043 in research and other sponsored funding and will exceed that number in 2011.
A computer animation designed by UNH’s Colin Ware educates Smithsonian museum goers about the complexity of ocean waters.