

ENGAGING UNH

Connecting Business with the University of New Hampshire



Strategic relationships to connect the University's educational, research, and outreach mission with your corporate or company goals

CORPORATE RESOURCES

www.unh.edu/corporateresources

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Engaging UNH

Providing access to strategic relationships that connect the University of New Hampshire's educational, research, and outreach mission with your corporate or company goals

STRATEGIC RELATIONS WITH UNH

The Office of the Vice President for Research at the University of New Hampshire facilitates University partnerships with industry, government, foundations, non-profits, and other interested organizations. By providing access to students, faculty, and administration, we can develop strategic relationships that connect our educational, research, and outreach resources with your business goals.

We serve as a single point of contact and work closely with many specific leaders here at UNH to help you discover which resources best align with your needs, facilitate coordination, and improve connection to our corporate partners and the business community. These resources and points of contact are identified throughout this document.

Put our strengths to work to your advantage. When you connect with UNH, the strategic relationship enhances your organizational and business goals through:

- **Career Resources, Internships, Fellowships:** UNH is an excellent place to find the talent your organization needs. We facilitate career fairs, posting of internships and jobs, and mentoring.
- **Tech Transfer:** UNH is a top-tier research institution with growing success in intellectual property development and technology transfer. You can collaborate on shared research, license UNH technology, or be involved in the spin out of UNH intellectual capital.
- **Doing Business with UNH:** UNH is a large institution and community. We value our relations with service providers, sub-contractors, and vendors.
- **Business Development:** We are committed to assisting the private sector and the State of New Hampshire with economic and business development.
- **Educating Your Workforce:** UNH offers many applied and focused educational programs for the business community at our campus in Durham, at UNH Manchester, and online. We offer associate, baccalaureate, and graduate programs that will help your employees to continue or complete their post-secondary education.
- **Executive Development:** We can develop on-site or on-campus programs tailored to your business needs that will enhance the skills of your current workforce.
- **Outreach:** Working with UNH ties your organization more closely to our knowledge base and to the fabric of the community.
- **Community: Networking, Events, and Knowledge** Connect with colleagues, business associates, and opinion leaders at the UNH CEO Forum; enjoy a UNH Men's or Women's hockey game; take in a show at Johnson Theater; explore an art exhibit at Paul Creative Arts Center; attend a lecture in one of our colleges, departments, or centers; or visit a UNH library.
- **Focused Research Expertise:** UNH has more than 70 groups, centers, and institutes that are able to provide assistance to your research problems.

Remember...we want to remain connected to you. You may be a UNH alumnus or your company may have many UNH alumni. You may want to mentor students, establish internships, hire UNH graduates, or serve on boards.

Remember...UNH can help you to make a difference by realizing your charitable or social responsibility goals through gifts to the University. Our UNH Foundation Corporate Relations Team can work closely with you as this aspect of the partnership is realized. Organizations that support UNH are recognized within the University and the community, generating visibility linked to mutual effort and commitment.

GENERAL CONTACT INFORMATION

For **General Coordination** about partnerships, contact the Office of the Vice President for Research:

- John Aber, VP Research (603) 862-1948, john.aber@unh.edu
- Taylor Eighmy, Asst. VP for Research and Dir. Strategic Initiatives (603) 862-1065, tayloreighmy@unh.edu
www.unh.edu/research

For **Re-establishing Your Alumni Connections**, contact the UNH Alumni Office:

- Gregg Sanborn, Exec. Dir. (603) 862-2040
gregg.sanborn@unh.edu
www.alumni.unh.edu

For **Corporate Relations and Philanthropy**, contact the UNH Foundation:

- Peggy Sullivan, Dir. Corporate Relations (603) 862-2042
peggy.sullivan@unh.edu
www.foundation.unh.edu

CAREER RESOURCES, INTERNSHIPS, FELLOWSHIPS

UNH educates its students for the global marketplace through an extensive internship program in which students apply what they have learned in the classroom to the workplace. The UNH Pathways program links UNH alumni with undergraduate students for professional mentoring. The UNH Diversity Networking Program prepares students in traditionally underrepresented groups for the workforce. We coordinate with colleges, schools, and departments to organize internship programs, special fellowships, and scholarships, and specialized career fair programs with companies. We also coordinate on-campus interviews, job and internship postings, speaking opportunities, site visits, and resume and interview events to allow prospective employers access to UNH's talented undergraduate and graduate students.

For **Job Postings, Career Fairs, Internships, and Fellowships** on the Durham Campus contact the UACC Career Center:

- Bethany Cooper, Assoc. Dir. (603) 862-2029
bethany.cooper@unh.edu
www.unh.edu/uacc

For **Job Postings, Career Fairs, Internships, and Fellowships** at UNH Manchester, contact UNH Manchester:

- Trece Mettauer, Internship Coord. (603) 641-4311
trece.mettauer@unh.edu
- Colleen Bolton, Academic and Career Counselor (603) 641-4331
colleen.bolton@unh.edu

TECHNOLOGY TRANSFER

The Office of Research Partnerships and Commercialization (ORPC) develops and manages the intellectual property portfolio of the University of New Hampshire. Its mission is to build research partnerships that result in commercialization and economic development; serve as the focal point for advocacy and support

of UNH's intellectual property; assist faculty and staff with intellectual property protection by patent, copyright, or other means; and facilitate transfer of research results to the public by bringing scientists and the business community together in relationships of mutual advantage.

ORPC has a particularly strategic focus statewide through the Experimental Program to Stimulate Competitive Research (EPSCoR Program) and its goal to increase the state's science and technology resources, as well as the New Hampshire Industrial Research Center, a matching grant program funded by the N.H. Legislature.

For **Joint Research Projects** and **Licensing Opportunities**, contact the Office of Research Partnerships and Commercialization:

- Michelle Gregoire, Marketing Mgr. (603) 862-0126
michelle.gregoire@unh.edu
www.orpc.unh.edu

DOING BUSINESS WITH UNH

There are many ways to do business with UNH.

For **Vendor Opportunities**, contact UNH/USNH Purchasing:

- Denise Smith, Dir. (603) 862-3396
denise.smith@usnh.edu
www.unh.edu/purchasing

For **Athletics Sponsorships** and **Marketing with UNH Athletics**, contact Athletics Corporate Partnerships:

- Duke Little, Dir. Corp. Part. (603) 862-3907
duke.little@unh.edu
www.unhwildcats.com

For **Scholarship Support for UNH Athletics**, contact Athletics Corporate Partnerships:

- Brenda Holt-Mullaney, Co-Dir. of Athletic Fundraising (603) 862-3842, brenda.mullaney@unh.edu
- Garin Veris Co-Dir. of Athletic Fundraising (603) 862-3741, garin.veris@unh.edu
www.unhwildcats.com

For **Sponsoring** or **Underwriting with NHPTV**, contact New Hampshire Public Television:

- Jeffrey Morris, Corp. Rel. Mgr. (603) 868-4396
jmorris@nhptv.org
www.NHPTV.org

To explore **Corporate Meetings** and **Hotel Arrangements**, contact the New England Center:

- Shelley Burch, Hotel Rooms Division Manager (800) 909-6931, shelleysburch@unh.edu
www.newenglandcenter.com

Need **Experts to Speak at Your Business or Community Groups?** Contact the UNH Speakers Bureau:

- Nora Molloy, Program Coordinator, (603) 862-4401
speakers.bureau@unh.edu
www.unh.edu/presidentialevents/speakersbureau/

BUSINESS DEVELOPMENT

UNH's expertise and collaborative ventures can help entrepreneurs and established businesses leverage their potential by providing research, advice, economic development assistance, and manufacturing solutions.

For **Small Business Advice, Management Consulting, and Educational Programs**, contact the N.H. Small Business Development Center:

- Mary Collins, Dir. (603) 862-2200
mary.collins@unh.edu
www.nhsbdc.org/

Need **Business Expertise?** Contact the Whittemore School of Business and Economics:

- Cynthia Nizzari-McClain, Ext. Rel. Coord. (603) 862-0017
cnmc@cisunix.unh.edu
www.wsbe.unh.edu

For **Programs and Workshops Related to Family Businesses**, contact the Center for Family Business:

- Barbara Draper, Dir. (603) 862-1107
barbara.draper@unh.edu
www.familybusiness.unh.edu

To explore **Corporate Team Development**, contact the Browne Center:

- Mark Stailey, Prog. Dir. (603) 868-1772, ext. 106
mstailey@brownecenter.com
- Mark Yacovone, Prog. Dir. (603) 868-1772, ext. 108
mark.yacovone@unh.edu
www.brownecenter.com

EDUCATING YOUR WORKFORCE

Our academic programs combine the theoretical with the practical, making UNH graduates well-prepared for today's workforce.

For **General Employee Educational Opportunities and Customized Training**, contact Professional Development and Training:

- Karina Drumheller, Mgr. (603) 862-4344
karina.drumheller@unh.edu
www.learn.unh.edu

To explore various **MBA Opportunities**, contact the Whittemore School's Graduate & Executive Programs Office:

- George Abraham, Dir. (603) 862-1367
george.abraham@unh.edu
<http://wsbe.unh.edu/grad/>

To explore graduate opportunities in **Accounting, Economics, and Management of Technology**, contact the Whittemore School's Graduate & Executive Programs Office:

- George Abraham, Dir. (603) 862-1367
george.abraham@unh.edu
<http://wsbe.unh.edu/grad/>

For **Academic Programs Geared for Working Professionals** in the Merrimack Valley region, contact the Center for Graduate and Professional Studies:

- Kate Ferreira, Dir. (603) 641-4312, kate.ferreira@unh.edu
www.unhgrad.unh.edu

EXECUTIVE DEVELOPMENT

Seminars, workshops, and degree and certificate programs give individuals and professional groups an opportunity to expand their own skills as well as to network and exchange ideas.

To explore **Executive Education** and **Corporate Development Opportunities**, contact the Whittemore School's Graduate & Executive Programs Office:

- George Abraham, Dir. (603) 862-1367
george.abraham@unh.edu
<http://wsbe.unh.edu/grad/>

UNH OUTREACH: FACULTY SCHOLARSHIP, EXPERTISE, AND KNOWLEDGE

UNH plays an important role in the economic, cultural, and educational development of the Seacoast, state of New Hampshire, New England, and beyond. Our 700 faculty have a wealth of knowledge and expertise and are available to offer their talents and scholarship as part of our outreach mission.

To facilitate access to our faculty, please explore using these resources and points of contact.

Need **Research Assistance or Access to Specialized Information?** Contact the UNH Library:

- Diane Tebbetts, Assoc. University Librarian, (603) 862-1509
diane.tebbetts@unh.edu
www.library.unh.edu

Need **Engineering, Physical Sciences, Mathematics, or Computer Science** expertise? Contact the College of Engineering & Physical Sciences:

- Joe Klewicki, Dean (603) 862-3113
joe.klewicki@unh.edu
- Bob Henry, Assoc. Dean (603) 862-3501
robert.henry@unh.edu
- Janet Campbell, Assoc. Dean (603) 862-1070
janet.campbell@unh.edu
www.ceps.unh.edu

Need **Biological Sciences** and **Natural Resources** expertise? Contact the College of Life Sciences & Agriculture:

- Stacia Sower, Int. Assoc. Dean (603) 862-2103
stacia.sower@unh.edu
www.colsa.unh.edu

Need **Health Science** expertise? Contact the School of Health and Human Services:

- Neil Vroman, Assoc. Dean (603) 862-1177
nbv@hopper.unh.edu
www.shhs.unh.edu

Need **Liberal Arts** expertise? Contact the College of Liberal Arts:

- Ted Kirkpatrick, Assoc. Dean (603) 862-2062
ted.kirkpatrick@unh.edu
www.unh.edu/liberal-arts

Need connection with **Programs in Manchester**? Contact UNH Manchester:

- Kristin Woolever, Dean, (603) 641-4107
kristin.woolever@unh.edu
- Ginger Lever, Dir. Mkt. Comm. Rel. (603) 641-4122
ginger.lever@unh.edu
- Kate Ferreira, Dir. Grad & Prof. Std. (603) 641-4312
kate.ferreira@unh.edu
www.unhm.unh.edu

Need **UNH Cooperative Extension** expertise? Contact UNH Cooperative Extension:

- John Pike, Dean (603) 862-1520
john.pike@unh.edu
- Jim Grady, Associate Dean (603) 862-1520
jim.grady@unh.edu
www.extension.unh.edu

For information about **Community Economic Development Initiatives** contact:

- Charlie French, Ext. Prof./Spec., Communities (603) 862-0316, charlie.french@unh.edu

Need expertise in **Food-Based Business Initiatives**? Contact:

- Catherine Violette, Ext. Prof./Spec. Food and Nutrition (603) 862-2496, catherine.violette@unh.edu

Need expertise in **Agriculture Business Enterprises**? Contact:

- Mike Sciabarrasi, Ext. Prof./Spec., Agriculture Business Mgmt. (603) 862-3234, mike.sciabarrasi@unh.edu

Need expertise about **Forest Industries**? Contact:

- Sarah Smith, Ext. Prof./Spec. Forest Industries, (603) 862-2647, sarah.smith@unh.edu

For information about the **Fisheries and Aquaculture Industries**, contact:

- Brian Doyle, Program Leader, Sea Grant & Water Resources, (603) 749-1565, brian.doyle@unh.edu

If you need expertise in providing **Financial Literacy** programs to your employees, contact:

- Suzann Knight, Ext. Prof./Spec. Family Resource Management, (603) 862-0092, suzann.knight@unh.edu

COMMUNITY: NETWORKING, EVENTS, AND KNOWLEDGE

UNH is a vibrant place with many art and cultural events and seminars. These venues are just the place to take colleagues and associates if you wish to spend time on campus.

To learn about these events, see the **UNH Master Calendar**, which can be accessed directly from www.unh.edu or at <http://calendar.unh.edu>

Interested in **International Education**? Contact the Center for International Education. The center coordinates study abroad policies including risk management, sponsors a seminar series on international topics open to the public, and facilitates international agreements between UNH and foreign institutions.

Connect with other CEO's, presidents, and senior management leaders from the business community and the University by joining the CEO Forum.

- Barbara Draper, Dir. (603) 862-1107
barbara.draper@unh.edu
www.unh-ceoforum.org

The **Dimond Library** offers three grand reading rooms, seating for 1,200, 21 miles of shelving for books, and the Dimond Academic Commons (DAC). The DAC (Main Floor) features "one-stop" shopping for information needs, including reference assistance, IT help, high-tech equipment, and collaborative work space. Wireless access, computer workstations, and laptop hookups are available throughout the building.

www.library.unh.edu

To learn about programs, events, classes, services, and other valuable resources available to the University's surrounding communities, visit the online **Community Resource Guide**. All are available for free or at a nominal cost to individuals and organizations.

www.unh.edu/communityresources

To cheer on the **Wildcat Men's and Women's teams**, you can purchase individual tickets by calling 1-866-WILDCAT (945-3228), purchase group tickets by calling (603) 862-3838, or purchase tickets on-line.

www.unhwildcats.com

FOCUSED RESEARCH EXPERTISE IN GROUPS, CENTERS, AND INSTITUTES

Founded in 1866, the University of New Hampshire is a Carnegie Foundation-classified Comprehensive Doctoral and Research University with high research activity. It is a land-, sea-, and space-grant public university serving more than 11,300 undergraduates and 2,400 graduate students. National Science Foundation (NSF) data shows that UNH ranks 82nd among public universities—and 118th among universities—in R&D expenditures. Extramural research support has been growing steadily since the late 1980s. In FY 2006, UNH recorded more than \$128 million in extramural support, particularly from the Department of Commerce (largely the National Oceanic and Atmospheric Administration [NOAA] at \$49 million); NASA (\$11 million); NSF (\$9 million, including 11 faculty with NSF CAREER Awards); the Department of Justice

(\$8 million); and the Department of Health and Human Services (\$4 million). The private sector has provided more than \$10 million in support in FY 2006, including support from biomedical/biotechnology companies (Bentley Pharmaceuticals, Pfizer, Merck, and Aviv Biomedical). Foundations have provided approximately \$10 million in support (Beckman Research, Ford, Annie E. Casey, David and Lucille Packard, Kellogg, Alfred P. Sloan, Davis Educational, and Endowment for Health).

University faculty members serve on National Academy of Sciences and National Academy of Engineering panels, federal agency science advisory boards, and international commissions, and are MacArthur, Guggenheim, Fulbright, and Carnegie fellows.

Many faculty are affiliated with more than 70 formal groups, centers and institutes, described here by nine general categories (listed alphabetically): Biology and Biotechnology; Business, Economics, and Finance; Engineering and Computer Sciences; Environmental, Ocean and Space Sciences; Liberal Arts; Marine Sciences and Engineering; Materials Sciences; Social and Health Sciences; and Sustainability Programs.

BIOLOGY AND BIOTECHNOLOGY

Biomolecular Interaction Technologies Center (BITC)

BITC, an NSF Industry/University Cooperative Research Center, funds development of advanced methods to analyze biomolecular interactions in drug discovery and development. Benefits of membership include first knowledge of emerging technologies and collaboration.

- Tom Laue, (603) 862-2459, tom.laue@unh.edu
www.bitc.unh.edu

Center to Advance Molecular Interaction Science (CAMIS)

CAMIS develops new tools and techniques to characterize the interaction of biological molecules. CAMIS serves academia and the pharmaceutical, biotechnology, and materials science industries.

- Tom Laue, (603) 862-2459, tom.laue@unh.edu
www.camis.unh.edu

Center for Freshwater Biology (CFB)

The center promotes training, research, and outreach activities in freshwater systems in New Hampshire, regionally and globally. Current programs encompass applied limnology, lake monitoring, non-native species investigations, biotoxins, genetic bar-coding, fish genetics, stream ecology, inland water remote sensing, and aquaculture.

- Jim Haney, (603) 862-2105, jfhaney@unh.edu
<http://cfb.unh.edu>

Glycomics Research Center

The Glycomics Center specializes in ion trap mass spectroscopy and conducts research in glycoprotein structure and function, glycosylation, glycomics, proteomics, and bioinformatics.

- Vern Reinhold, (603) 862-2527, vernon.reinhold@unh.edu
<http://glycome.unh.edu>

Hubbard Center for Genome Studies (HCGS)

The center conducts research in comparative and environmental genomics, with a special emphasis on novel model species. It also provides technical assistance by constructing BAC and cDNA

libraries; offering services in high-throughput DNA sequencing, fragment analysis, and analysis of gene expression; and maintaining expertise in biocomputing and database services to support these activities. The center plays a leading role in education and training in genomics and promotes development of the biotechnology industry in the Seacoast region.

- W. Kelley Thomas, (603) 862-2470
kelley.thomas@unh.edu
<http://hcg.unh.edu>

N.H. Agricultural Experiment Station

The station oversees all research in the College of Life Sciences and Agriculture. It seeks to solve problems affecting agriculture, forestry, the social and economic well-being of New Hampshire's people, the region, and the nation by optimizing a blend of applied and basic research.

- Stacia Sower, (603) 862-3394, stacia.sower@unh.edu
www.colsa.unh.edu/aes

BUSINESS, ECONOMICS, AND FINANCE

Center for Venture Research

The center conducts multidisciplinary research on early stage equity financing for high growth ventures.

- Jeffrey Sohl, (603) 862-3373, jeff.sohl@unh.edu
<http://wsbe.unh.edu/cvr>

Enterprise Integration Research Center

The center develops frameworks for effective integration strategies, developing innovative technology applications to cultivate information sharing in large organizations and businesses, and exploring emerging technologies and their impact on organization competitiveness, including commercialization. The center provides expertise to private and public companies, and organizations.

- Venky Venkatachalam, (603) 862-0015
venky.venkatachalam@unh.edu
www.unh.edu/wsbe/eirc

International Private Enterprise Center

The center studies, evaluates, and proposes public policies and managerial strategies to enhance the private sector's contributions to economic growth. It distributes information through publications and symposia about economic and financial policies that foster the development and viability of the private sector.

- Fred Kaen, (603) 862-3354, fred.kaen@unh.edu
www.unh.edu/ipec

William Rosenberg International Center of Franchising

The center advances the field of franchising through relevant research and innovative teaching. Educational and research guidance is provided by a top level advisory board representing the various segments of the franchise community.

- Udo Schlenrich, (603) 862-0137, uas@cisunix.unh.edu
http://wsbe.unh.edu/Centers_WRCIF/home.cfm

ENGINEERING AND COMPUTER SCIENCES

Center for Xenon Imaging

The center investigates the properties and utility of hyperpolarized xenon, particularly as a contrast agent in magnetic resonance imaging.

- William Hersman, (603) 862-3512, hersman@unh.edu
<http://xenon.unh.edu>

Center for Fluid Physics

The center studies complex flow of air and water around structures, vehicles, ships, and aircraft with a focus on improving the modeling and measurement of turbulent fluid behavior.

- Joe Klewicki, (603) 862-3113, joe.klewicki@unh.edu
www.cfp.unh.edu

Consolidated Advanced Technologies for Law Enforcement Program (CATLab)

CATLab is a collaborative research and development effort between UNH and the N.H. Dept. of Safety to integrate embedded mobile computing equipment and wireless networking into state police cruisers using voice technology and car-based electronic systems to provide advanced support for N.H. state troopers.

- Andrew Kun, (603) 862-4175, andrew.kun@unh.edu
www.project54.unh.edu

Design and Manufacturing Laboratory (DML)

The laboratory, situated in the Mechanical Engineering Department, focuses on computer numerical control machining processes and the knowledge infrastructure for a new generation of "Smart Machining Systems" capable of producing high-quality machined parts in a reliable, robust, and rapid fashion.

- Robert Jerard, (603) 862-4299, robert.jerard@unh.edu
www.unh.edu/dml

Design Automation Laboratory (DAL)

The DAL, situated in the Department of Electrical and Computer Engineering, supports the educational and research activities around the design and implementation of advanced microelectronic systems.

- Andrzej Rucinski, (603) 862-1381, andrzej.rucinski@unh.edu
www.ece.unh.edu/dal/index.html

Environmental Research Group (ERG)

ERG is an applied environmental science and engineering research center conducting research in partnership with industry, communities, federal agencies, and international organizations focused on areas of importance to N.H. and New England communities, the private sector, and the nation (with six sub-centers, see below).

- Kevin Gardner, (603) 862-4334, kevin.gardner@unh.edu
www.unh.edu/erg

Bedrock Bioremediation Center (BBC)

The Bedrock Bioremediation Center specializes in multidisciplinary research that focuses on development, testing, and evaluation of innovative technologies to enhance *in-situ* biodegradation of organic contaminants in bedrock aquifers.

- Nancy Kinner, (603) 862-1065, nancy.kinner@unh.edu
www.unh.edu/erg/bbc

Coastal Response Research Center (CRRC)

The center is focused on developing new approaches to spill response and restoration in marine and estuarine environments through research and synthesis of information. A partnership with NOAA, the center stimulates innovation in spill preparedness, response, assessment, and implementation of optimum spill recovery strategies. The primary purpose of the center is to conduct and oversee basic and applied research, conduct outreach, and encourage strategic partnerships in spill response, assessment, and restoration.

- Nancy Kinner, (603) 862-1065, nancy.kinner@unh.edu
www.crcc.unh.edu

New England Water Treatment Technology Assistance Center

The New England Water Treatment Technology Assistance Center is the hub for water treatment research and technology innovation in New England. A part of EPA's TACnet, the group's efforts in advanced water treatment technology focus on the need of small communities and consulting and regulatory engineers for reliable, affordable drinking water systems.

- M. Robin Collins, (603) 862-1407, robin.collins@unh.edu
www.unh.edu/erg/wttac

Recycled Materials Resource Center

The center conducts research to ensure that recycling of materials in roads will be free of unexpected long-term environmental consequences. The goal is to make recycling possible, in ways that produce physical performance of roads at least as good as with traditional materials, at the same or lower cost. The center is funded by the Federal Highway Administration.

- Kevin Gardner, (603) 862-4334, kevin.gardner@unh.edu
www.rmrc.unh.edu

UNH Contaminated Sediments Center

The center was developed in response to regional and national needs to find sustainable management methods for contaminated dredged materials from ports, harbors, and waterways; to develop new and safer dredging technologies; and to develop *in-situ* treatment and reactive capping techniques.

- Kevin Gardner, (603) 862-4334, kevin.gardner@unh.edu
www.unh.edu/erg/ccsr/index.html

UNH Stormwater Center

The UNH Stormwater Center has constructed a field facility on the UNH Durham campus where devices or designs for stormwater management can be tested in parallel, enabling a controlled setting from which system performance can be evaluated.

- Tom Ballestero, (603) 862-1405, tom.ballestero@unh.edu
www.unh.edu/erg/cstev/index.htm

InterOperability Laboratory (UNH-IOL)

The laboratory is a neutral, third-party laboratory dedicated to testing data networking technologies through industry collaboration. The UNH-IOL offers collaborative testing programs in more than 20 data networking and storage technologies.

- Gerard Nadeau, (603) 862-0166, grn@iol.unh.edu
www.iol.unh.edu

Leitzel Center (Joan and James Leitzel Center for Mathematics, Science, and Engineering Education)

The Leitzel Center works to transform education in mathematics, science, and engineering at UNH, in elementary and secondary schools, and informal settings through high-quality research, carefully examined practice, and interdisciplinary collaboration.

- Karen Graham, (603) 862-3621, karen.graham@unh.edu
<http://leitzelcenter.unh.edu/index.html>

New England Academic Center for Emergency Preparedness and Response

This academic consortium, including UNH, Dartmouth College, Yale University, Capital Community College, the University of Connecticut, the University of Vermont, the Massachusetts Institute of Technology, and Elizabeth City State University, focuses on homeland security and related projects.

- Richard Messner, (603) 862-1304, rich.messner@unh.edu
www.ece.unh.edu/nehs/PUBLIC/

Non-lethal Technology Innovation Center (NTIC)

The Non-lethal Technology Innovation Center was created by a grant from the Joint Non-lethal Weapons Directorate in the Marine Corps to effect the next generation of capabilities by identifying and promoting the development of innovative concepts, materials, and technologies within the academic community.

- Glenn Shwaery, (603) 862-0520, glenn.shwaery@unh.edu
www.unh.edu/ntic

Nuclear Physics Group

The group conducts basic research on the nature of the fundamental particles and their interactions, and the resulting observable subatomic structures and phenomena. Much of the program is carried out using high-energy particle accelerators, large particle detectors, and other specialized equipment and techniques. It maintains the Nuclear Instrumentation Laboratory on campus for the purpose of developing, extending, and applying those techniques.

- John Calarco, (603) 862-2088, calarco@unh.edu
<http://einstein.unh.edu/nuclear/nuclear.html>

Research Computing Center (RCC)

The center supports the needs of many research groups at UNH. It provides computational and networking support to customers, advises the University community on subjects pertaining to computing and communications, and conducts research and testing.

- Patrick Messer, (603) 862-2889, patrick.messer@unh.edu
<https://rcc.sr.unh.edu/>

Robotics and Vibrational Control Laboratory

The research emphasis of the laboratory, situated in the Department of Electrical and Computer Engineering, is the application of fast associative memories and other neural network learning techniques (such as CMAC neural networks) to problems in control, pattern recognition, and signal processing. The basic concept is to design hardware/software systems, which improve their own performance through practice.

- Gordon Kraft, (603) 862-1318, gordon.kraft@unh.edu
www.ece.unh.edu/robots/rbt_home.htm

ENVIRONMENTAL, OCEAN, AND SPACE SCIENCES

Water Resources Research Center (WRRC)

The WRRC is a focal point for research and information on water issues in N.H. and the region. It conducts research, technology transfer, and education of new professionals. The center also runs the UNH Water Quality Analysis Laboratory, providing a wide range of water analysis for researchers, government agencies, watershed associations, and private industry.

- Bill McDowell, (603) 862-2249, bill.mcdowell@unh.edu
www.wrrec.unh.edu

Institute for the Study of Earth, Oceans, and Space (EOS)

A multidisciplinary scientific research institute dedicated to understanding the integrated behavior of the Earth and its surrounding universe. EOS is a world leader in the fields of space science, terrestrial ecosystems, oceanography, atmospheric science, and global climate change (with five sub-centers, see below).

- Berrien Moore, (603) 862-1766, b.moore@unh.edu
www.eos.sr.unh.edu

Center of Excellence for Coastal Ocean Observation & Analysis (COOA)

As one of nine partner institutions comprising NOAA's Coastal Observation Technology System (COTS), this UNH Center of Excellence develops and implements observing systems for monitoring the coastal marine ecosystem in the western Gulf of Maine. It conducts research to develop the capability to detect, model, and ultimately forecast changes in the Gulf of Maine ecosystem.

- Janet Campbell, (603) 862-1070, janet.campbell@unh.edu
www.cooa.unh.edu

Climate Change Research Center (CCRC)

The center conducts research and graduate education in the atmospheric sciences. Its studies encompass the chemical and dynamical environment of the Earth's atmosphere using sophisticated observational and modeling tools. Its research is focused on understanding the fundamental properties of the atmosphere-climate system and how they have been affected by human activities and will continue to be so in the future.

- Robert Talbot, (603) 862-1546, robert.talbot@unh.edu
<http://ccrc.unh.edu/>

Complex Systems Research Center (CSRC)

Dedicated to understanding the Earth as an integrative system, the CSRC explores the physical, chemical, and biological processes that shape the Earth's environment, with emphasis on the unique role of humans as agents of change. The Center pursues interdisciplinary studies of national and international scope investigating global environmental change from both scientific and policy perspectives through field studies, space-based observations, data integration, and modeling. It provides a scientific basis for informed decision-making at local, state, national, and global levels.

- Steve Frolking, (603) 862-0244, steve.frolking@unh.edu
www.csrc.sr.unh.edu/

Ocean Process Analysis Laboratory (OPAL)

OPAL conducts research and educational programs in bio-optical oceanography and remote sensing, molecular oceanography, fish behavior and gear technology, plankton ecology and fisheries oceanography, and estuarine and coastal chemistry.

- Janet Campbell, (603) 862-1070
janet.campbell@unh.edu
www.opal.sr.unh.edu

Space Science Center (SSC)

The Space Science Center fosters research and graduate education in all of the space sciences with studies ranging from the ionosphere to the Earth's magnetosphere, the local solar system, and out to the farthest reaches of the universe. Investigations of the Earth's environment in the solar system utilize space as a laboratory for plasma physics. The center conducts 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 previous missions are still providing data for ongoing analysis. Upcoming missions for which the center is building instruments are IBEX (launch date 2008), NPOESS (launch date 2012), and MMS (launch date 2013). The center is also a Center of Excellence in theoretical solar-terrestrial research and home to the Experimental Space Plasma Group and the Space Science Theory Group.

- Roy Torbert, (603) 862-1638, roy.torbert@unh.edu
www.eos.sr.unh.edu/Resctr/SSC

LIBERAL ARTS

Center for the Humanities

The center supports humanities research and interdisciplinary collaboration by UNH faculty from fields such as anthropology, communication, fine arts, folklore, foreign languages, geography, history, literature, philosophy, religious studies, sociology, and women's studies. The Center for New England Culture (CNEC) is a unit of the center. The Center for the Study of Community (CSC), a collaborative program sponsored by Strawberry Banke Museum and UNH, is an affiliate of the center.

- Burt Feintuch, (603) 862-4356, burt.feintuch@unh.edu
www.unh.edu/humanities-center

MARINE SCIENCES AND ENGINEERING

Center for Coastal & Ocean Mapping (C-COM) and Joint Hydrographic Center (JHC)

The center is a NOAA-supported National Center of Expertise to promote and foster education of a new generation of hydrographers and ocean mapping scientists. The center develops and evaluates a wide range of state-of-the-art hydrographic and ocean mapping technologies and applications. The center interacts and cooperates with the private sector through its Corporate Partners Program.

- Larry Mayer, (603) 862-2615, larrym@cisunix.unh.edu
www.ccom.unh.edu

Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET)

The center is a partnership between UNH and NOAA that supports the scientific development of innovative technologies for understanding and reversing the impacts of coastal and estuarine contamination and degradation.

- Rich Langan, (603) 862-0190, rlangan@cisunix.unh.edu
<http://ciceet.unh.edu/>

Cooperative Institute for New England Mariculture and Fisheries (CINEMAR) Open Ocean Aquaculture Demonstration Project

The institute is a regional program established in partnership with NOAA that provides scientific research, technology research, and outreach for marine resource management and seafood production. It is currently recognized by NOAA as the Atlantic Marine Aquaculture Center.

- Rich Langan, (603) 862-0190, rlangan@cisunix.unh.edu
<http://cinemar.unh.edu>

Large Pelagics Research Center

A Center of Excellence established through a partnership between UNH and NOAA through the National Marine Fisheries Service, the center is dedicated to developing the scientific information, technology, and integrated approaches necessary to support development of effective ecosystem-based management strategies for large pelagic species (e.g. Atlantic bluefin tuna, turtles, and sharks) in the northwest Atlantic Ocean.

- Molly Lutcavage, (603) 862-2891
molly.lutcavage@unh.edu
www.largepelagics.unh.edu

Marine Program

The program provides organizational structure through which faculty and students with interests in marine biology, ocean engineering, and ocean science can work together in multidisciplinary teams to conduct research (with eight sub-centers, see below).

- Jon Pennock, (603) 862-2921
jonathan.pennock@unh.edu
<http://marine.unh.edu/>

Anadromous Fish and Aquatic Invertebrate Research (AFAIR) Laboratory

Faculty associated with this laboratory promote and support training, research, and outreach activities in fresh and sea water fisheries, aquaculture, and invertebrate studies. Current research programs include comparative biomedical research, invertebrate and vertebrate genomics, and biochemical and molecular neuroendocrinology.

- Stacia Sower, (603) 862-2103, sasower@cisunix.unh.edu
<http://www.unh.edu/biochemistry/sower/labs.html>

Center for Marine Biology

The center fosters excellence in marine biological research and education by strengthening and focusing research and graduate education in modern marine biology, and by encouraging development of high-quality undergraduate programs in all aspects of marine biology.

- David Berlinsky, (603) 862-0007, david.berlinsky@unh.edu
http://marine.unh.edu/research_centers/MPCenters.html

Center for Ocean Engineering

The center integrates UNH's academic and research activities in ocean engineering to provide the interdisciplinary background students need to understand the technologies and sciences critical to ocean engineering. The center supports research to promote effective and wise use of the coastal ocean.

- Ken Baldwin, (603) 862-1898, kcb@christa.unh.edu
http://marine.unh.edu/research_centers/MPCenters.html

Center for Ocean Science

The center integrates UNH's academic and research activities in ocean science to provide the interdisciplinary background students need to understand the technologies and sciences critical to marine sciences. It supports research to promote effective and wise use of the coastal ocean.

- Janet Campbell, (603) 862-1070, janet.campbell@unh.edu
http://marine.unh.edu/research_centers/MPCenters.html

Coastal Marine Laboratory (CML)

The Coastal Marine Laboratory provides UNH faculty and students with access to the open waters of the Gulf of Maine and laboratory facilities with full-strength seawater capabilities. CML houses a complete dive locker and is home to numerous research vessels, including those that provide primary support for the Open Ocean Aquaculture Demonstration Project.

- Hunt Howell, (603) 862-2109
whh@christa.unh.edu
http://marine.unh.edu/facilities/CML/cml_overview.htm

Jackson Estuarine Laboratory (JEL)

Resident faculty members, students, post-doctoral fellows, and visiting scientists conduct research that covers a wide range of marine science fields and is supported by a variety of private, state, and federal agencies. It provides diverse education opportunities for undergraduate and graduate students.

- Jon Pennock, (603) 862-2921
jonathan.pennock@unh.edu
<http://marine.unh.edu/jel/home.htm>

NH Estuaries Project (NHEP)

This program provides expertise, assistance, and funding for the restoration, protection, and monitoring of N.H.'s estuaries and coastal watershed resources. The NHEP is one of the 28 programs that comprise the U.S. EPA National Estuary Program.

- Jennifer Hunter, (603) 862-3948, jennifer.hunter@unh.edu
www.nhep.unh.edu

Shoals Marine Laboratory (SML)

As a seasonal field station operated jointly by Cornell University and UNH, the lab provides rigorous, "hands-on" training in marine science and intertidal and sub-tidal ecology to undergraduates, graduates, and professionals, as well as adult education courses and a program for high school juniors and seniors. The SML is a superb site for holding workshops, retreats, and short courses. It is isolated from distractions, with residential dorms, dining hall and Internet connectivity in a very beautiful setting.

- Jessica Bolker, (603) 862-0071, jbolker@cisunix.unh.edu
www.sml.cornell.edu

NH Sea Grant College Program

The program provides support, leadership, and expertise for marine research, education, and extension. As a component of the National Sea Grant College Program, it is one of a network of 30 programs promoting understanding, development, wise use, and conservation of ocean and coastal resources.

- Jon Pennock, (603) 862-2921
jonathan.pennock@unh.edu
www.seagrant.unh.edu

Northeast Consortium

The consortium conducts cooperative research and selective fishing gear technology development between member institutions (UNH, Univ. of Maine, MIT, Woods Hole Oceanographic Inst.), commercial fishermen, and other stakeholders in the Gulf of Maine and Georges Banks regions.

- Chris Glass, (603) 862-0122, chris.glass@unh.edu
www.northeastconsortium.org

MATERIALS SCIENCES

Advanced Polymer Laboratory (APL)

The APL solves challenging problems relevant to both the academic and industrial worlds by combining engineering and chemistry in the context of polymer science. It focuses on innovative polymeric materials, using advanced proprietary analytical techniques, state-of-the-art digital tools, and extensive international networking. APL is a component of the Nanostructured Polymers Research Center.

- Yvon Durant, (603) 862-1703, yvon.durant@unh.edu
www.unh.edu/apl

Materials Science Program

The program offers research opportunities for faculty and students in science and engineering areas that cross traditional department boundaries, with an emphasis on synthesis and characterization of nanoscale materials. Its faculty collaborate with local and international research groups and the private sector.

- Olof Echt, (603) 862-3548, olof.echt@unh.edu
www.unh.edu/materials-science

The Center for High-rate Nanomanufacturing

The Center for High-rate Nanomanufacturing (CHN) is focused on developing tools and processes that will enable high-rate/high-volume, bottom-up, precise, parallel assembly of nanoelements (such as carbon nanotubes, nanoparticles, etc.) and polymer nanostructures. CHN nanotemplates are utilized to direct the assembly of nanoscale elements by controlling the forces required to assemble, detach, and transfer nanoelements at high rates and over large areas. The developed nanotemplates and tools will accelerate the creation of highly anticipated commercial products and will enable the creation of an entirely new generation of applications.

- Glen Miller, (603) 862-2456, gpm@cisunix.unh.edu
www.nanotech.unh.edu

The Nano Group

The Nano Group is a core group of scientists and engineers working on a range of nanotechnology projects that are designed to make, move, model, and characterize nanoscale structures, surfaces, and features.

- Glen Miller, (603) 862-2456, gpm@cisunix.unh.edu
<http://nano.unh.edu>

Nanostructured Polymers Research Center (NPRC)

The center fosters the development of complex polymeric materials based on multiple phases with significant structure at the nanometer scale through advancements in macromolecule design, process innovation and improvements, and fundamental science.

- Don Sundberg, (603) 862-1878, don.sundberg@unh.edu
www.unh.edu/apl/nprc.htm

Polymer Research Group (PRG)

The group works on research problems of interest to both industry and academia, solving problems using basic scientific and engineering principles. It focuses on the synthesis of single and multiphase polymers with an interest in characterizing both their nano- and micro-scale properties. It has particular strengths and experience in controlling the morphological structure of synthetic latex particles in the 40-400 nm size range. The PRG is a component of the Nanostructured Polymers Research Center.

- Don Sundberg, (603) 862-1878, don.sundberg@unh.edu
www.unh.edu/prg

SOCIAL AND HEALTH SCIENCES

Carsey Institute

The Carsey Institute supports interdisciplinary research that informs policy makers and practitioners working to improve the well-being of families and build healthy, sustainable, and equitable communities in New England and nationally. It provides resources and programs to support faculty development for research in the social sciences and health fields. It supports opportunities for undergraduate and graduate students to participate in interdisciplinary policy research on families and communities, and to engage directly in programs working with families and communities (with eight affiliated centers, some highlighted here).

- Cynthia (Mil) Duncan, (603) 862-2821
mil.duncan@unh.edu

www.carseyinstitute.unh.edu

UNH Survey Center

The Survey Center conducts survey research projects with a commitment to work closely with each client on an individual basis to provide high-quality, cost-effective public opinion polling data. The center conducts mail, telephone, Internet, e-mail, and self-administered surveys for University researchers, public agencies, non-profit organizations, private businesses, and media clients. It has experience working with a variety of state and federal agencies, private companies, not-for-profit organizations, and national news media sources. The center has conducted state, regional, and national general population surveys based on probability sampling, surveys which target specific populations, surveys which utilize complex stratified sampling techniques, and panel studies.

- Andy Smith, (603) 862-2226, andrew.smith@unh.edu
www.unh.edu/survey-center

Child Study and Development Center (CSDC)

The center is a laboratory affiliated with UNH's Dept. of Family Studies that serves as a site for research on children and provides UNH students with experimental teaching and learning experience. It provides developmentally appropriate programs

using a project approach of collaborative inquiry in which children, parents, and teachers work together.

- John Nimmo, (603) 862-2834, j.nimmo@unh.edu
<http://csdc.unh.edu>

Crimes Against Children Research Center (CCRC)

The center combats crimes against children by providing high quality research and statistics to the public, policy makers, law enforcement personnel, and other child welfare practitioners regarding the nature and impact of crimes such as child abduction, homicide, rape, assault, and physical and sexual abuse.

- David Finkelhor, (603) 862-2761
david.finkelhor@unh.edu
www.unh.edu/ccrc

Family Research Lab (FRL)

The laboratory conducts research devoted to understanding all aspects of family violence, the impact of violence in families, and abuse.

- David Finkelhor, (603) 862-2761, david.finkelhor@unh.edu
www.unh.edu/frl/

Institute on Disability (IOD)/University Center for Excellence on Disability (UCED)

The IOD provides a coherent, University-based focus for improvement of knowledge, policies, and practices related to persons with disabilities and their families. It advances policies and systems changes, promising practices, education, and research that strengthen communities and ensure full access, equal opportunities, and participation for all persons. It is one of 61 National Centers for Excellence supported by the U.S. Department of Health and Human Services.

- Jan Nisbet, (603) 862-4320, jan.nisbet@unh.edu
www.iod.unh.edu

Justiceworks

A collaborative consortium of academicians and professionals that conducts research in justice studies and offers an array of balanced, non-partisan services addressing issues in crime, safety, security, and the administration of justice.

- John (Ted) Kirkpatrick, (603) 862-2060
ted.kirkpatrick@unh.edu
www.justiceworks.unh.edu

N.H. Institute for Health Policy and Practice (NHIHPP)

The institute is a formal alliance between the N.H. Department of Health and Human Services, UNH, and Dartmouth Medical School to develop and disseminate policy and practice information to improve the health and well-being of N.H.'s citizens. It serves as a focal point to assist state and private agencies in conducting health services research and analysis and evaluations for fact-based policy development and improvement of the health care system.

- Edgar (Ned) Helms, (603) 862-5033
ehelms@cisunix.unh.edu
www.nhhealthpolicyinstitute.unh.edu

Northeast Passage

Northeast Passage creates an environment where individuals with disabilities can recreate with the same freedom of choice, quality of life, and independence as their non-disabled peers. This is done by developing, delivering, and evaluating innovative adapted sport,

recreation, health promotion, and inclusion programs. The program promotes client independence through education and problem solving, creating opportunities, and collaborating with others to create a strong network of accessible recreation.

- Jill Gravink, (603) 862-0070, jkg@cisunix.unh.edu
www.nepassage.org

Speech-Language-Hearing Center

The UNH Speech-Language-Hearing Center has served the special communication needs of individuals in the surrounding and University community for more than 40 years and offers state-of-the-art diagnostic and therapeutic speech, language, and hearing services to individuals of all ages. Its services are provided by graduate students in the Department of Communication Sciences and Disorders under the close supervision of experienced faculty. Supervising faculty are state licensed and nationally certified speech language pathologists or audiologists. All programs meet the ethical and professional standards established by the American Speech-Language-Hearing Association and the New Hampshire Board of Allied Health Professionals.

- Amy Plante, (603) 862-2546, amyplante@unh.edu
www.shhs.unh.edu/csd/slh_center.html

UNH Center on Adolescence

The center works collaboratively with others dedicated to supporting adolescents and helping youth make a successful transition to adulthood. It provides research capacity, education, and state-of-the-art information that support the health and well-being of adolescents in New Hampshire. It serves as a gateway to valid, current information about adolescents that will be useful to professionals, parents, and youth themselves.

- Kristine Baber, (603) 862-2152, kristine.baber@unh.edu
www.adolescence.unh.edu

SUSTAINABILITY PROGRAMS

Office of Sustainability Programs

The office integrates sustainability into UNH's identity, practices, and land-grant mission. The office is charged with collaborating with faculty, staff, administrators, and students to integrate the principles and practices of sustainability throughout UNH's "CORE"—curriculum, operations, research, and engagement—with local, state, regional, national, and international partners. The office works closely with the private sector, not-for-profits, and governmental agencies in building partnerships. It is the longest-standing endowed University sustainability program in the nation.

- Tom Kelly, (603) 862-2640, tom.kelly@unh.edu
www.sustainableunh.unh.edu

Organic Dairy

The Organic Dairy is a research center for organic production and management and an education center for organic dairy farmers, farmers considering the transition to organic, and students of sustainable agriculture. It is responding to a need of farmers for scientific research to support organic dairy efforts. UNH is the first land-grant university to have an organic dairy farm.

- Charles Schwab, (603) 862-1341
charles.schwab@unh.edu
www.organicdairy.unh.edu