The following facilities are an integral part of UH Mānoa. Some are designed for the purpose of research, some for research and teaching, and others to provide services to UH Mānoa students, faculty, or staff, or the surrounding community. Other units under the jurisdiction of a particular college or school are listed in the appropriate college or school section.

The Center on Aging (COA)
Office of Public Health Studies
Henke Hall 226
1800 East-West Road
Honolulu, HI 96822
Tel: (808) 956-5001
Fax: (808) 956-5964

The Center on Aging (COA) was established by the UH Board of Regents in July 1988 to stimulate and coordinate gerontological activities at UH Mānoa, to establish gerontology as an academic field at UH Mānoa, and to promote collaboration between the UH and other organizations concerned with aging.

The center is involved in a number of research and training projects including cultural variations in caregiving; help seeking; perceptions of chronic disease such as cancer, dementia, and diabetes, and death and dying practices; client and caregiver satisfaction with homecare services; coordinating specialized training and workshops in gerontology for local and international organizations; developing and testing educational materials related to elder abuse and neglect, end-of-life care and decision making; and health promotion.

The projects are being conducted in collaboration with a number of UH departments including the School of Law, the School of Nursing and Dental Hygiene, and the College of Social Sciences along with community agencies such as the Executive Office on Aging, the Hawaiian Islands Hospice Organization, the Hawai‘i Medical Services Association, and Papa Ola Lokahi among others.

Institute for Astronomy
2680 Woodlawn Drive
Honolulu, HI 96822
Tel: (808) 956-8312
Fax: (808) 988-2790
Web: www.ifa.hawaii.edu

The Institute for Astronomy (IFA) conducts research in astronomy and astrophysics and assists in graduate training. It operates observatories on Haleakalā, Maui, for solar, satellite, and lunar ranging studies. The institute also conducts planetary, stellar, extragalactic, and infrared studies on Mauna Kea on the Big Island, using telescopes operated by the UH and by Canada, France, the Netherlands, the United Kingdom, and other countries. UH astronomers are allowed observing time on all telescopes.

Cancer Research Center of Hawai‘i
1236 Lauhala Street
Honolulu, HI 96813
Tel: (808) 586-3010
Fax: (808) 988-2790
Web: www.crch.org/

The Cancer Research Center of Hawai‘i (CRCH) is a free-standing organized research unit of UH Mānoa focusing on cancer research. CRCH faculty are comprised of scientists and
physicians from various disciplines reflecting the broad research interests of the Cancer Research Center. CRCH is a National Cancer Institute (NCI)-designated Cancer Center. This is a prestigious designation granted only to the most eminent and successful cancer centers in the nation after a vigorous peer review. The prestigious NCI designation comes with a Cancer Center Support Grant, which provides funding for various research core facilities such as biostatistics, genotyping, nutrition, informatics, and analytical chemistry. CRCH also operates the Hawai‘i Tumor Registry and a clinical trials unit which makes clinical trials available to cancer patients in Hawai‘i.

Center faculty are engaged in all aspects of cancer research, from basic laboratory research, epidemiology and prevention to treatment, continuing care, and quality of life and generate over $45 million in extramural research support annually. In addition to conducting fundamental research in cancer biology, the CRCH also provides training opportunities for undergraduates, MS, MD, MPH and PhD students enrolled in academic disciplines closely aligned with the faculty’s research interests.

The center’s research activities are organized into five programs: (1) cancer epidemiology, which is comprised of researchers in the fields of epidemiology, nutrition, molecular genetics and biostatistics who are studying lifestyle, genetic and hormonal causes of cancer; (2) prevention and control, which designs, develops and evaluates behavioral and community interventions to reduce cancer incidence, morbidity, and mortality and to improve the quality of life of cancer patients; (3) the natural products and cancer biology program, which is a multi-disciplinary research program in the areas of drug discovery, drug action and molecular cancer biology; (4) the clinical science program, which seeks to reduce cancer morbidity and mortality through improved treatment regimens; and (5) the thoracic oncology program which studies how environmental and chemical carcinogens, viruses and genetics interact in mesothelioma and lung carcinogenesis to develop novel preventive and therapeutic approaches for these malignancies.

Cooperating Institutions
The UH extends its research capacity and service to the state through cooperative agreements and relationships with various institutions, including Bernice P. Bishop Museum, East-West Center, Hawaiian Agricultural Research Center, Honolulu Academy of Arts, National Marine Fisheries Service, National Park Service, Nature Conservancy of Hawai‘i, Pacific International Center for High Technology Research, Tropical Fruit and Vegetable Research Laboratory, U.S. Fish and Wildlife Service, U.S. Geological Survey’s Hawaiian Volcano Observatory, several local hospitals, and numerous state agencies.

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**East-West Center**
1601 East-West Road
Honolulu, HI 96848-1601
Tel: (808) 944-7111
Fax: (808) 944-7376
E-mail: ewcinfo@EastWestCenter.org
Web: eastwestcenter.org/

The East-West Center is an education and research organization established by the U.S. Congress in 1960 to strengthen relations and understanding among the peoples and nations of Asia, the Pacific, and the U.S. The Center contributes to a peaceful, prosperous, and just Asia Pacific community by serving as a vigorous hub for cooperative research, education, and dialogue on critical issues of common concern to the Asia Pacific region and the U.S. Funding for the center comes from the U.S. government, with additional support provided by private agencies, individuals, foundations, corporations, and the governments of the region.

**Diving Safety Program (SCUBA and Compressed Gas Diving)**
Environmental Health and Safety Office
2040 East-West Road
Honolulu, HI 96822
Tel: (808) 956-9643
Fax: (808) 956-3205
E-mail: dpence@hawaii.edu
Web: www.hawaii.edu/ehso/diving

SCUBA and compressed gas diving operations are important tools in the research and educational programs of the students, staff, visiting scientists, and faculty of UH. The UH Diving Safety Program (UHDSP) supports these activities and ensures they are conducted in a safe manner. UH is an organizational member of the American Academy of Underwater Sciences (AAUS) and adheres to the AAUS Guidelines for the Conduct of Scientific Diving Programs. The body governing UH diving activities is the UH Diving Control Board. The UH diving safety officer is responsible for day-to-day operation of the program.

Regardless of prior recreational SCUBA experience or certification, all UH students, faculty, staff, and visitors must be authorized by UHDSP before participating in UH-related diving activities. UH divers serve a Diver-In-Training period and then gain a university scientific diver authorization with a specific depth authorization. Temporary or reciprocal authorization for visiting scientific divers may be granted in accordance with UH and AAUS diving regulations. Divers must receive dive plan approval from UHDSP prior to conducting dives and report diving activity monthly to UHDSP.

UHDSP provides training courses on a periodic basis for UH personnel who will utilize compressed gas diving in their research or educational activities. Course topics include diving methods for scientists, computer-assisted diving, enriched air nitrox diving, diver rescue, CPR, first aid, and oxygen administration. A diving equipment inspection program for equipment to be used under UH jurisdiction is provided.
UHDSP compiles reports on university scientific diver activity and investigates accidents and complaints of unsafe conditions in connection to UH-related diving.

**Environmental Center**
Krauss Annex 19
2500 Dole Street
Honolulu, HI 96822
Tel: (808) 956-7361
Fax: (808) 956-3980
Web: www.hawaii.edu/envctr

The Environmental Center, a unit of Water Resources Research Center, coordinates the education, research, and service efforts of the UH relating to the maintenance, protection, and improvement of the environmental quality in Hawai‘i and the adjacent marine environment. It is a conduit for the transfer of interdisciplinary academic and research expertise in environmental matters from the UH to the government, with a particular regard for public review processes established within the state's Environmental Impact Statement (EIS) laws. Its research program is highly interdisciplinary and focuses on issues of particular importance to improving environmental management decisions in the Pacific. The center works closely with the U.S. Environmental Protection Agency as well as other federal and state agencies in Hawai‘i on many of its research contracts. The center also administers the environmental studies major and certificate programs, see the “Colleges of Arts and Sciences” section within this Catalog. For a list of research affiliates, see the “Environmental Studies in the Colleges of Arts and Sciences” section of this Catalog.

**External Affairs and University Relations**
2444 Dole Street
Bachman 109H
Honolulu, HI 96822
Tel: (808) 956-8109
Fax: (808) 956-9701
E-mail: ur@hawaii.edu
Web: www.hawaii.edu/offices/eur

External Affairs and University Relations (EAUR) promotes the image of and enhances support for the UH system through a wide range of public relations, marketing and communication services. Four units report to the Associate Vice President for External Affairs and University Relations: Creative Services provides direct editorial, photographic and design support for communication via print and online publications; Governmental Relations serves as the liaison to state and federal lawmakers; Marketing and Branding is responsible for the development and implementation of an integrated identity and brand strategy for UH as well as monitoring of collegiate licensing; Public Relations and Special Events builds support among local, national and international audiences through news media relations, public affairs and events. Online resources available from the EAUR home page include Newsroom, Malamalama magazine, university style guide, employee newsletter, stationery and business card procedures. Also see the UH Events Calendar at www.hawaii.edu/calendar.

**Office of Faculty Development and Academic Support**
Kuykendall 107
1733 Donagho Road
Honolulu, HI 96822
Tel: (808) 956-8075
Fax: (808) 956-9535
Web: www.ofdas.hawaii.edu

The Office of Faculty Development and Academic Support (OFDAS) provides general academic support and services in support of faculty and instructional development. OFDAS provides leadership development workshops, seminars, and focus groups for department chairs; TA training; supports faculty evaluation and development funds (professional development plans); supports departmental instructional and faculty development projects; coordinates faculty convocations, orientations, and honors ceremonies; maintains a faculty development resource and conference room (Kuykendall 106) available to faculty and departments; coordinates a faculty mentoring program; and provides direction and supervision for its subunit centers (Center for Teaching Excellence, Center for Instructional Support, and Faculty Mentoring Program).

**Industrial Relations Center**
Sinclair 301
2425 Campus Road
Honolulu, HI 96822
Tel: (808) 956-8132
Fax: (808) 956-8165
E-mail: uhirc@hawaii.edu

The Industrial Relations Center (IRC) seeks to promote understanding of industrial relations and human resources development problems, techniques, and policies. Organized to facilitate UH research and instruction in the disciplines and professions related to industrial relations, the center also serves labor, management, and the community as the link in a continuing dialogue, reporting on changes in the field. The center maintains a library for information services and current publications; provides reference service; conducts conferences, lectures, and group discussions; and assists in the training of students and practitioners in the field. Research studies in industrial relations problems are conducted and published by the center.

**Information Technology Services**
Help Desk Location: Keller Hall 213
Help Desk Tel: (808) 956-8883
Help Desk E-mail: help@hawaii.edu
Web: www.hawaii.edu/infotech

Information Technology Services (ITS) provides support for academic computing, management information systems, networking, telephony, teleconferencing and distance learning technologies for the UH Mānoa campus and the UH system. ITS provides and supports a wide array of hardware, software, networks and services to meet these objectives. ITS' infrastructure includes central servers and services, local and wide area networks, a large voice communications system,
and several statewide video and teleconferencing systems to provide distance education services. In addition, ITS develops, operates and maintains the UH’s institutional administrative information systems.

Specific ITS services include: electronic mail, web hosting services, internet access, host-based software services, software site license programs, computer labs for students, a Digital Media Center for faculty, technical documentation, telephone services, voice mail, and a number of types of teleconferencing support. ITS also offers short courses and professional development activities for faculty and staff. All UH students, faculty and staff can obtain access to the internet and UH computing resources through ITS. The ITS Help Desk provides technical support and a single point of contact for access to ITS services.

Office of International Education
2444 Dole Street
Bachman Hall Suite 202
Honolulu, HI 96822
Tel: (808) 956-2223
Fax: (808) 956-0770
E-mail: oie@hawaii.edu
Web: www.hawaii.edu/oie

The Office of International Education (OIE) is a system-wide office that leads the UH international agenda for its ten campuses. It serves as a nexus for the university’s international education and training initiatives and partnerships, by facilitating and coordinating international activities and initiatives for internal and external constituencies. Central to OIE’s work is promoting global education opportunities for students and faculty.

OIE manages a system-wide international education website that serves as a center for the coordination and exchange of information. Additionally, OIE undertakes international outreach including representation on trade missions, international marketing, protocol, and alumni relations.

Office of International and Exchange Programs
Moore Hall 315
1890 East-West Road
Honolulu, HI 96822
Tel: (808) 956-0902
Fax: (808) 956-6345
E-mail: intl@hawaii.edu
Web: www.studyabroad.org

The Study Abroad Center (SAC) collaborates with various UH Mānoa academic departments to provide opportunities for students to study, and faculty members to teach and conduct research, in another country. For more details, go to the Special Programs section in “Undergraduate Education.”

International Exchange
Moore Hall 316
1890 East-West Road
Honolulu, HI 96822
Tel: (808) 956-4728
Fax: (808) 956-6345
E-mail: kicker@hawaii.edu
Web: manoa.hawaii.edu/international/ie/

International Exchange provides an opportunity for UH Mānoa students to study overseas and students from our overseas partner universities to study at Mānoa. An international exchange may be for one or two semesters; some summer exchange programs are also available. Participating students are registered as full-time UH Mānoa students while on exchange, and pay only their normal tuition. Upon completing the exchange, students receive transfer credit based on an evaluation of the transcript provided by the host university.
The National Student Exchange provides full-time undergraduates with the opportunity to study for a semester or a year at one of 190 colleges and universities located throughout the Continental U.S., Canada, Puerto Rico, Guam, and the Virgin Islands. Tuition costs for exchange students are reasonable since participants pay either UH Mānoa tuition or resident tuition at the host school. Room, board, and transportation costs are additional. For those who meet the eligibility requirements (including a minimum cumulative GPA of 2.5), exchange is an excellent way to explore different academic, social, and cultural settings.

International Student Services
Queen Lili‘uokalani Center for Student Services 206
2600 Campus Road
Honolulu, HI 96822
Tel: (808) 956-8613
Fax: (808) 956-5076
E-mail: issmanoa@hawaii.edu
Web: www.hawaii.edu/issmanoa/

International Student Services (ISS) provides assistance to approximately 1,800 international students who come from more than 90 countries to study at UH Mānoa. The ISS advises students on regulations affecting their non-immigrant visa status in the U.S., provides opportunities to help students adjust to the local and U.S. cultures by working closely with the International Student Association, and serves as the office responsible for meeting international student federal compliance mandates.

Faculty and Scholar Immigration Services
Physical Science Building 102-106
2565 McCarthy Mall
Honolulu, HI 96822
Tel: (808) 956-0934
Fax: (808) 956-5030
Email: immigrtn@hawaii.edu
Web: www.hawaii.edu/oie/immigration.php

The Office of Faculty and Scholar Immigration Services (FSIS) provides UH System-wide immigration and support services for international employees and administers the Exchange Visitor Program for all J-1 categories, except for UH Mānoa students. FSIS serves as a central resource for advising, assisting, and disseminating immigration information to international employees and scholars. It maintains a central immigration database of UH-sponsored international faculty, researchers, professional/technical staff, and scholars, from which it generates internal and external reports. FSIS reviews and updates UH immigration policies and procedures and serves as a liaison between UH and federal agencies on immigration matters.

Institutional Research Office
1633 Bachman Place
Sinclair Annex 2-4
Honolulu, HI 96822
Tel: (808) 956-7532
Fax: (808) 956-9870
E-mail: iro-mail@hawaii.edu
Web: www.hawaii.edu/iro/

The Institutional Research Office (IRO) manages student, course, and curricula information for the ten UH campuses, and provides management and planning support information for the UH system.

For more information regarding statistical data on any of the ten UH campuses, please see the Management and Planning Support (MAPS) reports on the IRO website. MAPS reports are also available for viewing at the Hamilton Library on the UH Mānoa campus.

Laboratory Animal Service
Snyder 514
2538 McCarthy Mall
Honolulu, HI 96822
Tel: (808) 956-8770
Fax: (808) 956-4448

The Laboratory Animal Service (LAS) is the support unit responsible for administering the Animal Care and Use Program for vertebrate animals used in research, training and testing at the UH. In addition to administering the systemwide Animal Care and Use Program, LAS also operates biomedical animal research facilities on the UH Mānoa and Kaka‘ako campuses. The program administered through LAS is managed in accord with the Guide for Care and Use of Laboratory Animals, and in compliance with all federal, state, and local laws and regulations such as the Animal Welfare Regulations (AWR) and the National Institutes of Health Public Health Service (PHS) Policy on Humane Care and Use of Animals.

The AWR and PHS Policy require institutions to ensure that people caring for or using animals are qualified to do so. LAS provides instruction to UH investigators, staff, students, and visiting researchers on the humane care and use of animals. In addition, an occupational health and safety program is part of the systemwide Animal Care and Use Program.

The Institutional Animal Care and Use Committee (IACUC) is responsible for the oversight and evaluation of the Animal Care and Use Program and its components. The committee is composed of veterinarians, biological and non-biological scientists, and local community representatives, who review animal use protocols, inspect facilities, evaluate animal use programs, investigate concerns involving alleged noncompliance, and deal with issues concerning humane care and use of animals.
Harold L. Lyon Arboretum
3860 Mānoa Road
Honolulu, HI 96822
Tel: (808) 988-0456
Fax: (808) 988-0462
Web: wwwdev.hawaii.edu/lyonarboretum/

The Harold L. Lyon Arboretum facilitates and conducts research, instruction, and public service in tropical biology and horticulture. Located on a 194-acre site in upper Mānoa valley are greenhouses, laboratories, classrooms, and an herbarium. The arboretum also houses living plant collections, comprising about 15,000 accessions that encompass more than 6,000 species, varieties, and cultivars. It is the only university arboretum in the U.S. located in a tropical rainforest, and it has one of the largest collections of palms of any botanical garden in the world. Other major collections include tropical trees, heliconias, gingers, aroids, and ti. Emphasis is placed on native Hawaiian plants, including research on propagation and restoration of endangered species, on restoration of Hawaiian ecosystems, and on ethnobotany of the Hawaiian Islands. The arboretum sponsors and publishes the Harold L. Lyon Arboretum Lectures and Lyonia.

Spark M. Matsunaga Institute for Peace
Saunders Hall 723
2424 Maile Way
Honolulu, HI 96822
Tel: (808) 956-4237
MIP/PCR Fax: (808) 956-0950
E-mail: uhip@hawaii.edu
Web: www.peaceinstitute.hawaii.edu

The Spark M. Matsunaga Institute for Peace is a multi-disciplinary community of scholars, students, practitioners, and visitors who seek through teaching, research, service and application to educate and train professionals and future leaders in applied peacemaking and conflict resolution; develop and apply innovations to the peaceful resolution of conflicts, locally, regionally, nationally and globally; address contemporary problems within Hawai‘i, the Asia-Pacific region, the U.S., and the world; and use our strategic Pacific location to bring people together and renew the university’s responsibility to provide a safe sanctuary for civil and respectful exchange of perspectives and ideas.

The Spark M. Matsunaga Institute for Peace, a center for innovation in peacemaking leadership and conflict resolution, is dedicated to honoring the legacy of U.S. Senator Spark M. Matsunaga’s public service and his vision that “every student enrolled in Hawai‘i’s public university will be exposed to peace studies,” and build on Hawai‘i’s cultural heritage and island values (including aloha, mutual aid and respect, community, caring for the land and a reliance on each other) to promote cross cultural communication and peacemaking leadership.

The institute’s programs include the Program on Conflict Resolution; the UH Alternative Dispute Resolution Project providing conflict prevention, management, and resolution for the university community; a nonviolence cluster of courses and interest; an ongoing Forum Series; the Tanahashi and Jacob Peace scholarships and awards; a resource center for students, faculty and staff; and strong multi-sector community involvement. For further information on its educational programs, see the “Colleges of Arts and Sciences” section within this Catalog.

Pacific Biosciences Research Center
Pacific Biosciences Research Center 215
1993 East-West Road
Honolulu, HI 96822
Tel: (808) 956-7401
Fax: (808) 956-4768
Web: www.pbrc.hawaii.edu

The Pacific Biosciences Research Center (PBRC) is an organized research unit that supports interdisciplinary biological and biomedical research and training in basic, clinical and applied areas with particular relevance to Hawai‘i. Current research is focused on cellular, developmental and molecular biology; Hawaiian evolutionary biology and conservation; membrane biology; neuro-behavioral biology; biotechnology; and molecular endocrinology. PBRC maintains core research support facilities in molecular biology (supporting genomics and bioinformatics) and confocal and electron microscopy serving the entire UH Mānoa campus and the state. PBRC fosters undergraduate and/or graduate research training through several programs, the MARC U*STAR and Haumana Biomedical Programs funded by the National Institutes of Health, the Undergraduate Mentoring in Environmental Biology and GK-12 Graduate Programs funded by the National Science Foundation and through individual grants to faculty. PBRC maintains the Békésy Laboratory of Neurobiology and the Center for Conservation and Research Training on the Mānoa campus and the Kewalo Marine Laboratory off-campus. PBRC has served as an incubator for developing new research initiatives and units, having supported the development of the 2-year medical school in the 1960’s, the Cancer Research Center in the 1980’s and more recently a number of clinical and human-health related programs that have recently transferred to the John A. Burns School of Medicine.

Social Science Research Institute
Saunders Hall 704
2424 Maile Way
Honolulu, HI 96822
Tel: (808) 956-8930
Fax: (808) 956-2884
E-mail: ssri@hawaii.edu
Web: www.ssri.hawaii.edu

The Social Science Research Institute (SSRI) serves as the sponsored research division of the College of Social Sciences. SSRI facilitates and supports empirical interdisciplinary research that addresses social, behavioral, environmental, and economic issues in Hawai‘i and the Asia-Pacific region. This is done through collaboration with faculty and students throughout the UH and with other educational and research institutions, regional and international organizations, the private sector, and federal, state, and county agencies. It is supported largely by contracts and grants from public agencies and private organizations.
SSRI provides practical experience to students at the UH through involvement in research, planning, and training projects. SSRI’s staff assists county, state, and federal agencies and local community groups in Hawai‘i with training and technical assistance. SSRI is also working with instructional units to integrate SSRI’s research efforts into courses offered at UH.

The institute currently focuses on these areas: crime, drug abuse, youth problems, and poverty; resources, sustainable development; telecommunication and information policy; culture, language and social problems; and health services and health policy. SSRI also cooperatively manages the University of Hawai‘i Economic Research Organization (UHERO), the Office for Evaluation and Needs Assessment Services, and the Mental Health Services Research, Evaluation and Training (MHSRET) program.

University of Hawai‘i Press
2840 Kolowalu Street
Honolulu, HI 96822
Tel: (808) 956-8257
Fax: (808) 988-6052
Web: www.uhpress.hawaii.edu

University of Hawai‘i Press publishes and distributes books and journals of high merit that reflect the regional or special interests and responsibilities of the UH and other scholarly research organizations. All titles carry the imprint “University of Hawai‘i Press.” UH Press is a member of the Association of American University Presses, the Association of American Publishers, the Society for Scholarly Publishing, Hawai‘i Book Publishers Association, and the International Association of Scholarly Publishers. UH Press publishes books of regional interest, scholarly monographs, textbooks, and scholarly journals. (UH Press also operates a sales program—East-West Export Books—in Asia and the Pacific on behalf of American scholarly publishers.) Editorial control (final approval of manuscripts) is vested in a board made up of UH faculty members appointed by the Vice Chancellor for Academic Affairs. Faculty members are encouraged to submit book-length manuscripts to the executive editor. Journal papers should be submitted to the editor-in-chief of the appropriate journal.

Waikiki Aquarium
2777 Kalākaua Avenue
Honolulu, HI 96815
Tel: (808) 923-9741
Fax: (808) 923-1771
E-mail: info@waquarium.org
Web: www.waquarium.org

Waikiki Aquarium displays more than 2,500 specimens representing over 400 vertebrate and invertebrate species. The exhibits focus primarily on coral reefs and feature up-close experiences at the “Edge of the Reef” outdoor exhibit, educational talks about the Hawaiian monk seal and other interpretive presentations. An audio tour provides additional information about exhibits. The aquarium also offers a marine education program with classes, workshops and school tours. Research activities include coral propagation, monk seal biology, and various aquaculture and conservation-related projects, such as giant clam and jellyfish husbandry and reproduction of the chambered nautilus. The aquarium is open to the public from 9:00 am to 4:30 pm daily except Christmas.

Water Resources Research Center
Holmes 283
2540 Dole Street
Honolulu, HI 96822
Tel: (808) 956-7847
Fax: (808) 956-5044
Web: www.wrrc.hawaii.edu

Water Resources Research Center (WRRC) conducts research on Hawai‘i’s water resources, assists and promotes instruction in water resources in several academic departments, provides training opportunities for engineers and scientists through research, and communicates research results to users. Interdisciplinary research is broadly based in physical and biological sciences, technology, ecology, and social sciences. The research encompasses hydrology and hydraulic engineering, geology, geophysics and geochemistry, microbiology, chemistry, zoology, oceanography, sanitary engineering and public health, climatology and soil physics, agricultural engineering and forestry, and socioeconomic and legal issues. WRRC operates laboratories and field research facilities. The Environmental Center, whose mission focuses on ecological relationships, natural resources, and environmental quality, is administered by WRRC.