The most current and therefore most accurate version of this catalog is available on the Montana State University Web site at: http://www.montana.edu/wwwcat/

Montana State University is accredited by the Northwest Commission on Colleges and Universities, an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education. NASC is located at 11130 NE 33rd Place, Suite 120, Bellevue, Washington 98004. The University is also a member of the National Association of State Universities and Land-Grant Colleges.

Effective Fall Semester 2006
On January 21, 1994, the Montana Board of Regents voted unanimously to restructure the Montana University System. Under the plan, the (now) Montana State University campuses in Billings, Great Falls and Havre were administratively joined with the Bozeman campus.

Since the consolidation, the MSU campuses have emphasized course transferability, sharing resources, telecommunications, and providing more and better services to students everywhere. In recent years, the MSU-Great Falls College of Technology has begun to offer developmental coursework and two-year programs in Bozeman.

This catalog is specific to Montana State University-Bozeman. For additional information, please contact:

Montana State University
406-994-0211

Montana State University Northern
1-800-662-6132

Montana State University College of Technology Great Falls
1-800-446-2698 or 1-406-771-4300 if you are outside Montana

Montana State University Billings
406-657-2011 or 1-800-565-6782 if you are outside Montana
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IMPORTANT UNIVERSITY POLICIES

Equal Opportunity/  
Affirmative Action Policy

University Policy  
Montana State University-Bozeman  
does not discriminate on the basis of  
race, color, national origin, sex, sexual  
preference, marital status, age, religion,  
creed or political belief, mental or  
physical handicap or disability, or status  
as a Vietnam era or disabled veteran in  
admission, access to, or conduct of its  
educational programs and activities  
nor in its employment policies and  
practices.  

Montana State University-Bozeman  
is committed to providing a working  
environment for all employees and an  
educational environment for all students  
that supports and rewards career and  
academic goals on the basis of ability  
and work or academic performance.  
Harassment based on race, color, national  
origin, religion, sex, gender, sexual  
orientation, age or disability is a form of  
discrimination and is prohibited.  

The University is committed to a  
program of affirmative action in the  
recruitment, hiring, training, and  
promotion of persons in all classes of  
employment to help overcome the present  
effects of past discrimination and  
prevent underutilization of qualified  
women and minorities, persons with  
disabilities, Vietnam era and disabled  
veterans. In addition, Montana State  
University-Bozeman assumes particular  
responsibility for providing opportuni-  
ties for education and training for the  
state's Native American peoples in the  
various disciplines and professions that  
are characteristic of this land-grant  
university. The University's Affirmative  
Action Plan is available in the Human  
Resources/Affirmative Action Office.  

Employees or students who commit  
or supervisors who knowingly condone  
or fail to report incidents of discrimina-  
tion are subject to disciplinary actions  
when instances of discrimination are  
identified and confirmed. Knowingly  
filin false complaints of discrimination  
or knowingly providing false testimony  
will likely result in disciplinary or  
corrective action when instances of such  
conduct are identified and confirmed.  
Retaliation against persons who file  
complaints or serve as witnesses is also a  
violation of laws prohibiting discrimina-  
tion and will lead to appropriate disci-  
plinary action against offenders.  

Montana State University-Bozeman  
affords any student, employee, applica-  
tant for employment or admissions,  
or person who believes he or she was  
discriminated against by the University,  
the right to file a grievance on grounds  
of discrimination. As a condition of their  
employment and enrollment, employees  
and students are expected to cooperate  
in formal investigations of complaints of  
discrimination. Failure to cooperate will  
result in disciplinary action.  
Continued on page iv.
Complaints of discrimination, including harassment on the basis of race, color, national origin, sex, gender, sexual orientation, religion, age or disability should be reported to the Human Resources/ Affirmative Action Office.

Sexual Harassment and Sexual Intimidation

Sexual harassment includes unwelcome sexual advances, requests for sexual favors, or other verbal or physical conduct of a sexual nature when:

- Submission to such conduct is made implicitly or explicitly as a term or condition of an individual’s employment or education,
- Submission to or rejection of such conduct is used as a basis for employment or educational decisions, or
- Such conduct has the purpose or effect of unreasonably interfering with an individual’s work or academic performance or of creating an intimidating, hostile, or offensive environment.

Sexual intimidation includes any unreasonable behavior, verbal or nonverbal, which has the effect of subjecting members of either sex to humiliation, embarrassment, or discomfort because of their gender.

Sexual harassment is a form of sex discrimination and is prohibited by state and federal non-discrimination laws. Sexual intimidation in education is prohibited by state rules.

Sexually Explicit Materials in the Workplace

In keeping with the university’s policy on sexual harassment, Montana State University-Bozeman desires to create a working environment for employees and a learning environment for students which is free of sexual harassment and intimidation. Materials such as calendars, posters, post cards, photography and cartoons that contain sexually explicit images or language can create an intimidating, hostile or offensive environment and may subject persons of either sex to humiliation, embarrassment or discomfort because of their gender. Such materials are inappropriate and should be removed from the workplace.

This policy applies to space provided by the university such as offices, shops, classrooms, hallways, lounges and study carrels.

This policy does not apply to: (1) libraries, resource rooms, research collections; (2) materials related to course content or assignments used in the educational setting; (3) displays and exhibits in galleries and museums or (4) private rooms or family housing units rented from the University.

Consensual Relationships

(Same as Faculty Handbook Section 445.00, Conflict of Interest)

A consensual romantic relationship in which one party is in a position to evaluate the work of the other is a potential conflict of interest. When such a potential conflict of interest results between employees or an employee and a student, the employee(s) shall disclose the potential conflict of interest to his or her supervisor. The supervisor and the employee shall take steps to ensure that there is no conflict of interest.

The employee’s failure to disclose such a potential conflict of interest may require appropriate resolution.

Accommodation for Persons with Disabilities

The University is committed to the elimination of disability-based discrimination against qualified persons with disabilities and will make appropriate reasonable accommodation for any known disability that interferes with an applicant’s ability to compete in a selection process, an employee’s ability to perform the essential functions of a job, a student’s ability to meet the essential requirements of an academic program, or a person’s ability to benefit from a university service or participate in a university sponsored or hosted event.

All applicants, employees, students or participants, including those with disabilities, are expected to be able to perform the essential functions of the position or program, with or without reasonable accommodation.

It is the responsibility of the applicant, employee, student or participant with a disability to inform the appropriate person, as indicated below, that an accommodation is needed.

1. To request accommodation in a job application or interview process, contact:
   The hiring authority or chair of the search committee of the search, as indicated on the vacancy announce-
Directory

Board of Regents of Higher Education

Governor Brian Schweitzer, ex officio member
Linda McCulloch, State Superintendent of Public Instruction, ex officio member
Mike Foster, Billings
Stephen Barrett, Bozeman
John Mercer, Polson
Lynn Morrison Hamilton, Havre
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Lila Taylor, Bush

Local Executive Board
Sue Leigland, Bozeman
Bill Bryan, Bozeman
Bea Taylor, Bozeman

Central Administration

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Kori Groseth, Ph.D., Vice President for Inter-Campus Affairs
James Rimpau, Chief Information Officer and Executive Director for Planning and Analysis

Academic Affairs
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Jeff Adams, Ph.D., Assistant Vice Provost for Undergraduate Education
Norman Peterson, Ph.D., Vice Provost for International Education
Linda Hyman, Ph.D., Vice Provost and Director of WWAMI Medical Program

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Courtney Stryker, Ed.D., Dean of Students
Glenn Puffer, Ed.D., Assistant Dean of Students

Research and Creative Activities
Thomas McCoy, Ph.D., Vice President for Research, Creativity and Technology Transfer
Leslie Schmidt, Assistant Vice President for Research

Administration and Finance
Craig Roloff, M.Ed., Vice President for Administration and Finance
Robert Lashaway, Associate Vice President for University Services
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Colleges

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Arts and Architecture
Heather Bentz, BA, Assistant Dean

Business
Richard Semenkic, Ph.D., Dean Bruce Raymond Ph.D., Interim Associate Dean
Christine H. Lamb, Ed.D., Assistant Dean Renee Wachtler, Ph.D., Associate Dean of Academic Affairs

Education, Health and Human Development
Larry Baker, Ed.D., Interim Dean

Engineering
Robert Marley, Ph.D., Dean
Anne Camper, Ph.D., Associate Dean for Research and Graduate Studies Heidi sherick, M.Ed., Assistant Dean

Letters and Science
Sara Jayne Steen, Ph.D., Dean Adele S. Pittendrigh, M.A., Associate Dean George Tuthill, Ph.D., Associate Dean

Nursing
Elizabeth Nichols, Ph.D./RN, Interim Dean Gretchen McNeely, D.N.S., Associate Dean

University College
Phil Gaines, Ph.D., Director
Division of Graduate Education
Carl Fox, Ph.D., Vice Provost for Graduate Education

Administrative Offices

Admissions
Ronda Russell, M.Ed., Director

Affirmative Action/Human Resources
Corlann Bush, M.S., Director

Alumni Affairs
Jaynee D. Groseth, M.Ed., Director

Athletics
Peter Fields, M.A., Director

Career Services
Carina Beck, M.A., Director

Communications and Public Affairs
Cathy Conover, M.S., Director

Counseling and Psychological Services
Patrick M. Donahoe, Ed.D., Director

Extended Studies
Kimberly Obbink, Ed.D., Director

Facilities Services
Jeff Butler, MCEM, Director, Facilities Ops and Maintenance Walt Banzinger, AIA, MBA, Director, Planning

Foundations
David Gibson, Ph.D., Executive Director

University Studies
Philip Gaines, Ph.D., Director

Honors Program
Mike Miles, M.A., Interim Director

Human Resources/Personnel and Payroll
Susan Alt, B.S., Director

Information Technology Center
Mark Sheehan, Ph.D., Executive Director and CTO

International Programs
Norman Peterson, Ph.D., Assistant Vice Provost for International Education

Legal Counsel
Leslie Taylor, J.D.

Library
Bruce Morton, M.L.S., Dean
Tamara Miller, M.L.S., Associate Dean

Mail Services
Wanda DeMay, Manager

Museum of the Rockies
Sheldon McKamey, BS, Dean and Director

Native American Studies
Walter Fleming, Ph.D., Director

Registrar
Charles Nelson, M.Ed., Director of Enrollment Services
Bonnie Ashley, M.Ed., Associate Registrar

Residence Life and Food Services
Thomas Stump, CPA, Director of Auxiliary Services
Tammie Brown, M.S., Director of Residence Life
Lewis A. Hill, B.A., Director of University Food Services
Carina Beck, M.A., Director of Family and Graduate Housing

Safety and Risk Management
Jeff Shada, SRM-MEd, Director

Strand Union
Allen V. Bertelsen, B.S., Director

Student Accounts
Diane P. Allen, M.Ed., Director

Student Health Service
Robert McKenzie, M.D., Medical Director
James Mitchell, M.B.A., Director of Student Health

University Police
Robert Putzke, B.A., Director of University Police

WWAMI/Medical Science
Linda Hyman, Ph.D., Vice Provost and Director

Women's Center
Betsy Danforth, B.A., Director
Welcome to Montana State University

For the most up-to-date catalog information:
www.montana.edu/wwwcat

Campus
The 1,170-acre campus comprises more than forty classroom and administrative buildings, including ten residence halls, three residence dining halls, a student fitness center, The Museum of the Rockies, and the Strand Union Building which serves as the center of campus activities and convention center. The campus is spacious but not sprawling. A landscaped mall, the heart of the campus, is used by the students for studying, eating, and outdoor socializing. Shopping centers, restaurants, and theatres are all within walking distance.

Enrollment
Over 11,700 students attend MSU; 55 percent are men and 45 percent are women. Of the total student body, 8 percent are working on master’s and doctoral degrees, 88 percent are working toward a first bachelor’s degree, and 4 percent are continuing their studies beyond the first bachelor’s. Students represent all 50 states and 76 foreign countries. Montana residents comprise 73 percent of the student population, and 23 percent are over 25 years of age.

Faculty
Of the 650 resident faculty members, three-fourths have terminal degrees in their fields and more than two-thirds hold doctorates. Because of the nature of a land-grant university, many of the staff members hold joint appointments with affiliated research organizations on campus. Members of the faculty serve as advisers to graduate and undergraduate students, and many also serve as faculty advisers for student organizations and committees. The student/faculty ratio is approximately 19 to 1.

Calendar
The academic year consists of two semesters, with a semester break between Christmas and mid January. In addition, a summer session is offered. Dates for future sessions are available in the Academic Calendar.

Surrounding Area
Bozeman, a city of 30,000, lies in the heart of the Gallatin Valley, a rich farmland of scenic grandeur in mountainous southwestern Montana. At Bozeman’s altitude of 5000 feet, temperatures average 65-85 degrees in the summer (15 degrees cooler at night) and 0-45 degrees in the winter. The average yearly snow fall is 83.5 inches. Southwestern Montana, with its network of rivers, mountain lakes, and streams, is a veritable year-round recreational paradise.

Founding
Montana State University was established on February 16, 1893, as the Agricultural College of the State of Montana at Bozeman by an act of the State Legislature. The first term of instruction began on April 17 of that year.

In 1913, the name of the institution was changed to the State College of Agriculture and Mechanic Arts. In 1920, that name was changed to Montana State College and remained the same until July 1, 1965, when the new name—Montana State University—became effective.

On January 21, 1994, the Montana Board of Regents of Higher Education voted unanimously to restructure the Montana University System. Under the plan, effective July 1, 1994, Eastern Montana College (Billings) and Northern Montana College (Havre), plus the Vo-Tech Centers in Great Falls and Billings, were consolidated with Montana State University. The Regents renamed the consolidated units MSU-Billings, MSU-Northern, MSU-Billings College of Technology, and MSU-Great Falls College of Technology. The home campus of Montana State University is MSU-Bozeman.

As a land-grant institution authorized by the Morrill Act of 1862, Montana State University derives its support from biennial state legislature appropriations, student tuition and fees, federal land-grant income, and private and public grants.

Instruction
Resident instruction at MSU and the headquarters of the Engineering and Agricultural Experiment Stations and the Extension Service are located in Bozeman.

As the land-grant institution for the State of Montana, the University has created an atmosphere of outstanding research effort and adult education services to complement its regular instructional programs. Undergraduate instruction at Montana State University is administered through the Colleges of Agriculture; Arts and Architecture; Business; Education, Health and Human Development; Engineering; Letters and Science; Nursing; and University College.

MSU currently offers bachelor’s degrees in fifty fields with many diverse options, the master’s degree in forty-seven fields, and the doctorate in seventeen. Programs particularly appropriate for students in applied research or teaching are available.
MSU Libraries

The MSU Libraries serves as the primary center for information service, resources, and instruction in support of the teaching, research, and outreach at Montana State University-Bozeman. Each year, more than half a million visits are made to Renne Library, a multi-story building centrally located on campus next to the Strand Union Building. It was originally constructed in 1960-61 and renovated in 2001-2002. The main facade is decorated with ceramic sculptures by world-renowned MSU alumnus Rudi Autio. The first floor features Heathcote Court, with a coffee bar, comfortable seating, new book displays, rotating art exhibits, and a Rudi Autio sculpture. Other renovated spaces contain group study rooms and quiet study areas for students.

A wide array of databases and full-text books and journals are available through The Libraries website www.lib.montana.edu. An experienced library faculty provides formal and informal library instruction in the use of the facilities, services, and collections. The Research Assistance Program (RAP) provides one-on-one consulting to anyone in need of research assistance.

The Libraries offers Internet access, interlibrary loan, and document delivery to the MSU community. Over 75 computers in the library provide access to the online catalog, electronic materials, and the Internet. A wireless network and wired ports provide access for students with personal laptops. Easy network access is available to students off campus through a proxy server. The Libraries offers electronic course reserves, photocopy services, and an Arkenstone reading machine for authorized users with sight limitations.

Library resources are particularly strong in agriculture, science, technology, and medicine and the related health sciences reflecting curricular strengths at MSU. There is a wide range of U.S., Montana, and Canadian government publications. Many newspapers, magazines, and government documents are accessible via the Internet and on microforms for which readers and reader-printers are provided.

The Libraries' Special Collections contains unique and remarkable materials on Montana and its history. Through Special Collections, scholars and students can use the Yellowstone National Park Collection, the M.L. Wilson Agricultural Collection, the Hormay Collection on range management, the Trout and Salmonid Collection, and the B.K. Wheeler Collection. The Archives are the repository for MSU's official records as well as private records that pertain to the university and its history. The Creative Arts Library, located in Cheever Hall in the Creative Arts complex, houses books and journals in the fields of art and architecture.

For library access or information see the library's website at www.lib.montana.edu.

Indian Education for All

Article X, section 1(2) of the Montana Constitution, which has been in place since 1972, states:

"The state recognizes the distinct and unique cultural heritage of American Indians and is committed in its educational goals the preservation of their cultural integrity."

In 1999, the Montana Legislature enacted law (MCA 20-1-501) to clarify the intent to the constitutional amendment and to implement its obligations. Though this law, the Legislature recognizes the history of Montana and the current problems of the state cannot be adequately understood and the problems cannot be addressed unless both Indians and non-Indians have an understanding of the history, culture, and contemporary contributions of Montana's Indian people.

MCA 20-1-501

Recognition of American Indian cultural heritage—legislative intent.

1. It is the constitutionally declared policy of this state to recognize the distinct and unique cultural heritage of American Indians and to be committed in its educational goals to the preservation of their cultural heritage.

2. It is the intent of the legislature that in accordance with a Article X, section 1(2), of the Montana constitution:

a. every Montanan, whether Indian or non-Indian, be encouraged to learn about the distinct and unique heritage of American Indians in a culturally responsive manner;

b. every educational agency and all educational personnel will work cooperatively with Montana tribes or those tribes that are in close proximity, when providing instruction or when implementing an educational goal or adopting a rule related to the education of each Montana citizen, to include information specific to the cultural heritage and contemporary contributions of American Indians, with particular emphasis on Montana Indian tribal groups and governments.

3. It is also the intent of this part, predicated on the belief that all school personnel should have an understanding and awareness of Indian tribes to help them relate effectively with Indian students and parents, that educational personnel provide means by which school personnel will gain an understanding of and appreciation for the American Indian people.

Montana State University is committed to the goal of Indian Education for All because problems cannot be addressed until all people have an understanding of the history, culture, and contemporary contributions of Montana's Indian people. To reach this goal, we continue to develop, implement, and promote programs for all students, staff, and faculty at our institution.

Here, and elsewhere in MSU's literature, we use the terms Indian, and Native American to refer to general groups but in working with individual tribal nations it is more appropriate to refer to them by their preferred tribal name.
Research Programs & Centers

Office of Research, Creativity & Technology Transfer
Created in 1978, this office is headed by the Vice President for Research, Creativity, and Technology Transfer. In addition to administrative responsibilities for grant and contract sponsored research and creative activities, the office coordinates the work of several specialized MSU centers which offer both research and instructional opportunities, and serves as the technology transfer arm of the University.

Animal Resources Center
This center is a modern, centralized, laboratory animal facility for the care, use, and production of laboratory animals. The facility provides space for appropriate animal housing, technical support, and services for procedural activities involving animals used in teaching, research, and testing.

Office of Biomedical Research Programs
This office was established in 1986 under the Office of the Vice President for Research to help coordinate and facilitate research activities in the biomedical and health science areas between departments and colleges across campus. For over a decade the office provided oversight and supervision of the university's Institutional Review Boards and maintained files/records on research ethics and misconduct. Currently the office collects and maintains files and information on biomedical research and health-related topics; disseminates information on health-related issues; disseminates grant announcements; provides technical assistance for grant and contract applications; coordinates and assists with development of new biomedical and health-related projects and programs; and assists with meetings and conferences in biomedical and health science areas. Contact the Office at 406-994-5553; (email)djjones@montana.edu

Intellectual Property Administration and Technology Transfer (IPATNT)
This office provides for coordination and administration of MSU intellectual property. IPATNT encourages and provides guidance for invention disclosures, assists in developing sponsored research agreements which define the disposition of intellectual property created under the agreements, assists local companies in finding resources within the university, and represents the university's interest in intellectual property licensing negotiations.

MSU TechLink Center
TechLink is a technology transfer and commercialization center that helps companies in Montana and the larger region in three key ways: (1) To license technology developed by the federal government, particularly NASA and the Department of Defense; (2) to establish research-and-development projects with the federal government; and (3) to obtain funding from the federal government for new technology development and commercialization.

TechLink was established at MSU in 1996 with funding from NASA in increase NASA's technology-transfer activities in Montana and the surrounding states. In 1999, the Department of Defense (DoD) also began funding TechLink to assist this agency with technology transfer in the region. By the beginning of 2002, TechLink had brokered more than 140 federal/industry partnerships. Over a third of these projects involve Montana companies and many involve MSU researchers.

TechLink also assists MSU in technology transfer by evaluating MSU's invention disclosures, helping to strengthen patent claims, securing industry-sponsored research agreements, and marketing the university's patented and patent-pending technology.

Montana University System Water Center
The Montana University System Water Center was established by a 1964 Act of Congress which created and funded fifty-four centers at land grant universities. The structure of the Center includes a small staff and a director on the Bozeman campus, with associate directors at the University of Montana's

The central mission of the Center is to promote problem-solving partnerships among university, government, and private sector participants for water research, education, and outreach. Present partnerships include the Wild and Native Fisheries with a focus on whirling disease, and Drinking Water Assistance for small systems. In the field of drinking water, the Center produces interactive software and Web-based training materials, and coordinates university-based technologies. The Center also administers interdisciplinary grants programs for university faculty, and serves as a central switchboard for water information.

In-house and scholarship opportunities exist for motivated students with interests in water-related projects. Information can be found on MONTANA WATER, the Center's Web information network at http://water.montana.edu.

Reclamation Research Unit
The Reclamation Research Unit, located in the Department of Land Resources and Environmental Sciences, focuses on the rehabilitation of disturbed lands including active or abandoned mined lands and constructed wetlands; air pollution impacts on soils, vegetation, and animals; acid mine soil or drainage problems; and the cleanup of inorganic hazardous waste sites.

NSF-EPSCoR Program
The NSF-EPSCoR program encompasses many programs which include Invited Speakers, Undergraduate Scholars, Graduate Enhancement, New Faculty Hiring & Start-Up, Equipment, SBIR Phase 0, Faculty Development, Co-Funding Certification, and Montana State Competitive Grants Program. This infrastructure-building grant supports all aspects of lab and field research and encourages faculty to become more involved in the sponsored program activities of their chosen disciplines. MSU and UM work together to promote research and its potential for increasing economic growth throughout the states under this grant. Most recently the SBIR Phase 0 programs have been added to the outreach efforts under the overall grant, to help small businesses in Montana develop and submit SBIR Phase 1 proposals for
submission to federal funding agencies. More information on all aspects of the NSF-EPSCoR program in Montana can be accessed when you visit http://www.epscor.montana.edu/ or by contacting the NSF-EPSCoR office at 994-2080.

**Big Sky Institute**
The Big Sky Institute (BSI) is an interdisciplinary center dedicated to creating, applying, and communicating science-based knowledge to promote deeper understanding of environmental systems, both in their own right and in relationship to the human communities that depend upon them. BSI capitalizes on MSU’s location in the Greater Yellowstone Ecosystem to initiate and support integrated research programs that link processes from microscopic (e.g., microbial function in thermal features) to global (e.g., potential impacts of global changes on Yellowstone’s biodiversity). BSI recognizes that many of the most pressing challenges to understanding the Greater Yellowstone Ecosystem derive from the complex interactions between Yellowstone’s diverse terrain and biota together with the growing human presence in the ecosystem. To understand this complexity, BSI draws upon the talents of students and faculty from diverse disciplines and perspectives. In addition, BSI works with an array of partners to ensure that research results are communicated to the public and integrated into decision-making. For example, BSI works with K-12 teachers and MSU’s science and math education programs to infuse current research into classroom teaching materials.

For more information on current BSI programs, please consult www.bsi.montana.edu or 406-994-2374.

**Geographic Information and Analysis Center**
The Montana State University Geographic Information and Analysis Center (GIAC) was created in 1989 and is responsible for the acquisition and operation of geographic information systems and remote sensing facilities at MSU-Bozeman, MSU-Butte, and MSU-Northern.

The center contributes, in the land grant tradition, to the university’s programs of instruction, research, and outreach by conducting on- and off-campus training programs, providing direct technical assistance to Montanans, and conducting joint government-industry-university research.

**Center for Biofilm Engineering**
The Center for Biofilm Engineering was funded in 1990 by the National Science Foundation to increase U.S. competitiveness and to solve critical environmental, industrial, and medical problems through the use of environmental biotechnology. MSU’s Center is one of nearly thirty NSF Engineering Research Centers funded nationwide.

The mission of the Center for Biofilm Engineering is to advance the basic knowledge, technology, and education required to understand, control, and exploit biofilm processes. In achieving this mission, the center is meeting three major goals: 1) demonstrating the basic scientific and technological feasibility of systems that control and exploit biofilm processes; 2) creating an engineering education program based on teaching and research at the interface of life science and engineering; and 3) assisting in the direct transfer of research discoveries from university laboratories to industry for technology development.

A broad spectrum of industries, (e.g., oil production, chemical, personal health, and drinking water) are actively involved with students and researchers at the center. Working in contiguous laboratories, students from all engineering disciplines, microbiology, chemistry, physics, soil science, business, mathematics, statistics, and computer science analyze and solve industrially relevant problems by interacting with faculty, research staff, and the center’s Industrial Associates. This unique cross-training experience gives center students the tools to bridge communication gaps between scientists and engineers and to help solve the critical industrial and environmental issues facing the country.

**Center for Computational Biology**
This interdisciplinary unit develops and applies complex methods to research on biological systems such as neurosystems. A major feature of the center is its use of advanced, high-speed computer communication channels to the worldwide network.

**Optical Technology Center (OpTeC)**
The OpTeC conducts research in the rapidly growing field of electro-optics. Multidisciplinary research teams work with industry and other research centers to find solutions to industry problems and discover new application potentials in optical fields.

**The Spectrum Lab**
The Spectrum Lab was established in 1999 to conduct state-of-the-art research and development in optical electronics, to transition that new technology to Montana corporations, and to provide enhanced educational opportunities for undergraduate and graduate students.

**Thermal Biology Institute**
The Montana State University Thermal Biology Institute (TBI) is a multidisciplinary program for studying thermal biology. The long-term goal of the institute is to understand how organisms respond and adapt to unique physical and chemical features of the thermal environment.

**Project WET**
**Water Education for Teachers**
Project WET facilitates and promotes awareness, appreciation, knowledge, and stewardship of water resources through the development and dissemination of classroom-ready teaching aids and through the establishment of state and internationally sponsored Project WET programs.

**The Watercourse**
The Watercourse is a not-for-profit water science and education program based at MSU-Bozeman. Specializing in the development of educational materials on water and water related management issues, The Watercourse distributes these materials through training workshops and institutes.

**Image and Chemical Analysis Laboratory (ICAL)**
ICAL is a user-oriented facility that supports basic and applied research in all sciences and engineering disciplines at MSU, including in-house research in ICAL, and provides access to state-of-the-art equipment and expertise to local and other private sectors. ICAL instrumentation is dedicated to the
characterization of materials through high-resolution imaging and chemical analysis. This facility is open to both academic researchers and the general public. Website: www.physics.montana.edu or E-mail: physics@montana.edu or Phone: (406)994-4199, Fax: (406)994-6165.

Center for Learning and Teaching in the West (CLT West)
The Center for Learning and Teaching in the West (CLT West) is one of seven Centers for Learning and Teaching established by the National Science Foundation. CLT West will help to address a regional and national shortage of qualified science and mathematics educators at all levels, from middle and high schools to community colleges and universities. The Center administrative headquarters will be located at MSU Bozeman, and science, mathematics, engineering, and education faculty at MSU Bozeman and The University of Montana will participate in all aspects of the Center Program.

The specific goals of the center include: 1) increasing the number of qualified doctoral and post-doctoral level professionals with expertise in science and mathematics education; 2) increasing the number and quality of new teachers graduating with certification in these fields; 3) providing professional development to science and mathematics teachers in low-income and high minority schools in both inner cities and rural schools in the West; 4) investigating how distance learning can improve graduate education programs; and 5) enhancing the research infrastructure. Increasing science, mathematics and education faculty participation in research on teaching and learning is an overriding objective for this center. CLT West is a regional center serving the national science and mathematics education community. Other higher education partners working with MSU in Bozeman and the University of Montana include Colorado State University, University of Northern Colorado, Portland State University, and Fort Belknap Community College, Montana. Other center partners include rural school districts throughout Montana and in northern Colorado, and the Portland Public Schools.

The Center for Research on Chronic Health Conditions in Rural Dwellers (CRCHC)
CRCHC, funded by NIH/NINR, is located in the College of Nursing. The Center supports nursing faculty, and investigators and students from many disciplines to collaborate in research related to a wide variety of chronic health conditions known to be problematic for rural dwellers. Ultimately, it is envisioned that the collaboration with interdisciplinary colleagues and with nurse scholars across the region will occur in order to better address the needs of rural populations who are living with chronic health problems. For more information go to www.montana.edu/crchc.

Center for Entrepreneurship for the New West
There is sincere belief and commitment among the faculty and administration of the College of Business that a center for entrepreneurship can make a significant contribution to economic development and provide a framework for an outstanding educational experience for students. Within the College curriculum, entrepreneurship course work will be offered to students from any major or in the University through a thirty credit hour entrepreneurship minor. The course work in the minor will be integrated with research assignments in the College’s newly established Center for Entrepreneurship for the New West. Working directly with actual entrepreneurship in the early stages of their businesses offers a unique and potent developmental experience for students. Students in the entrepreneurship minor will be providing research assistance to TechRanch clients. TechRanch is a business incubator (www.techranch.org) located in the University Advanced Technology Park. Students will also have the opportunity to work with the Center’s other partner, TechLink (www.techlink.org) a NASA funded technology transfer organization, in assessing technology applications in the market place. Finally, student research assistance will be offered to MSU scientists who are interested in the commercial potential of their science. Outside the College and its formal curriculum, outreach programs will create a forum for various entrepreneur groups and act as a catalyst for developing and strengthening businesses.

Experiment Station
Agricultural Experiment Station
The Agricultural Experiment Station was established at Montana State University by acts of the Legislature of Montana in 1893 under authorization provided by the act of Congress of 1887 (Hatch Act). The Station operates under these enabling acts and subsequent federal and state legislation. Funds for agricultural research are derived from four sources, namely: 1) public and private grants, 2) state general funds appropriated by the Legislature of Montana, 3) federal funds appropriated by Congress under the Hatch Act Amended (1955), and 4) revenue from residual agricultural products from research and special services.

The Agricultural Experiment Station faculty are housed in six departments. The majority of the faculty are located in Bozeman with additional faculty located at the Agricultural Research Centers around the state. In addition, the Fort Keogh Livestock and Range Research Station at Miles City is a cooperative program with the U.S. Department of Agriculture.

Part of the research program of the Agricultural Experiment Station is done in cooperation with the Agricultural Research Service of the U.S. Department of Agriculture and other state and federal agencies. The Agricultural Experiment Station works cooperatively with other state experiment stations on problems having regional importance.

Information derived from research conducted by the faculty and staff is integrated into classroom instruction; made available to Montana residents through the subject-matter specialists, and county agents of the Extension Service; and is disseminated through newspapers, bulletins, circulars, leaflets, and by radio and television.

The Agricultural Experiment Station offers many opportunities to students through summer and part-time jobs on the campus and at the Research Centers.
Engineering Experiment Station

The Engineering Experiment Station at Montana State University was created by the State Board of Education in 1924 to improve the economy, efficiency, and safety of engineering activity in Montana; to promote the conservation and utilization of Montana resources; and to encourage appropriate new industrial activities.

Station funds are used to perform engineering research and outreach as part of the land-grant mission at Montana State University. Three types of projects are funded by the Station. "Seed money" grants are awarded for projects which have a high probability for attracting external support, and which will likely result in professional publication. Matching funds are provided for state and federal funds that support the ongoing research of the college. Other focused projects address the special needs of the state, including bioremediation, road design, mine reclamation, manufacturing, safety, and many other areas of engineering.

For innovative research projects, seed money is available through the Research Stimulation Program—Engineering (RSPE). These research projects are conducted by engineering faculty and often involve both graduate and undergraduate engineering students in research activities that enhance their education. The college uses these research programs to foster interdisciplinary education, which prepares students at all levels for employment in modern, team-based industries.

Examples of focused programs which are partially supported by Station funds include the Western Transportation Institute, which promotes the use of information technologies in rural transportation systems; the Local Technical Assistance Program, which disseminates technical information to local agencies in Montana for the improvement of transportation systems; the University Technical Assistance Program, which provides engineering, technical, and managerial assistance to Montana manufacturers; and the Montana Manufacturing Extension Center, which aids Montana industry in manufacturing engineering technology. On a broader scale, the Engineering Experiment Station has provided pivotal seed funding for the Center for Biofilm Engineering, which uses more than $4 million in federal and industrial funds to train over ninety graduate and undergraduate students in modern biotechnology.

Research performed by the Engineering Experiment Station adds to knowledge which forms the basis of profitable enterprise, demonstrates the application of existing knowledge to the development of worthwhile products, develops the skills of the research faculty, and materially improves the training of engineering students.

MSU Extension

Montana State University Extension provides research-based knowledge to strengthen the economic, social, and environmental well-being of Montana families, communities, and agricultural enterprises. Educational programs of MSU Extension are conducted on an informal, non-credit basis.

MSU Extension was created by the federal Smith-Lever legislation enacted in 1914. Its programs are funded cooperatively through a legal partnership among federal, state and county governments. The focal point for MSU Extension programs is the local Extension office. In Montana, these offices serve 56 counties and seven tribal reservations. Local county and reservation agents are backed by a staff of campus-based faculty who provide direct linkage with current research and a close working relationship with the Montana Agricultural Experiment Station. One of the functions of Extension is to provide input to the University on current Montana problems which are in need of research for their resolution.

Programs of MSU Extension address societal needs in the general areas of agriculture, family living, community and economic development, and youth development. One of Extension's best-known programs is the 4-H youth development program. Another unit of MSU Extension is the Montana Fire Services Training School, which provides training for paid and volunteer fire fighters throughout the state.

MSU Extension is a unit of the Montana University System and is administered by the MSU campus.

Outreach Centers

Burns Technology Center

The Burns Technology Center (BTC) was founded in 1993 to explore and advance the use of emerging information, communication, and instructional technologies. The BTC was named for U.S. Senator Conrad Burns, a national advocate for enhancing rural vitality using affordable telecommunications resources. The Burns Technology Center opened its doors in the Engineering/Physical Sciences
Building in February 1997 and functions as a self-sustaining, multipurpose, instructional facility at MSU.

The BTC offers training in the use of new information and communication technologies for both educators and business professionals, supports the development of distance learning courses and programs, and conducts research related to distance learning, instructional technology, and rural access to information/communication resources. The BTC services and programs are self-supporting and are funded through grants and contracts, donations, and fees for services.

The BTC works collaboratively with many campus departments, public agencies, and the private sector to support and promote the growing opportunities for public access to education and resources.

Extended University

Extended University administers and coordinates on- and off-campus instruction in the form of distance-delivered and face-to-face courses, programs, institutes, and conferences that supplement the formal academic curriculum at MSU. Extended University services are organized into three main categories.

Distance Degree and Certificate Programs: Looking for an online or distance learning course at MSU? Currently MSU offers several graduate and undergraduate courses online and via video conferencing. Non-traditional programs are offered in partnership with Extended University and MSU academic departments.

Office of Continuing Education: Continuing education courses extend the educational resources of the University to the citizens of Montana and beyond. Credit and non-credit courses are offered at various locations across the state. Increasingly, instruction is provided through the use of distance learning technologies, such as video conferencing and web-based online courses. Fees for continuing education courses vary and are established on a cost-recovery basis.

Burns Technology Center: The BTC supports a variety of instructional technology classrooms and tools at Montana State University. The BTC provides training and support services for faculty, students, and private organizations on a contract basis. In addition, the BTC participates in pilot and demonstration programs that explore and enhance information and communication technologies to benefit education and society.

Organizations, professional groups, and interested individuals are invited to contact Extended University for additional information concerning credit and non-credit courses and instructional technology programs. Go to http://eu.montana.edu.

Montana Area Health Education Center

The Montana Area Health Education Center (Montana AHEC) at Montana State University-Bozeman is one of six regional AHEC centers affiliated with the University of Washington School of Medicine.

The mission of the AHEC Program is to improve the supply and distribution of health care professionals, with an emphasis on primary care, through community/academic educational partnerships, to increase access to quality health care, and to increase access to quality health care.

This mission is accomplished through the following goals of the Montana AHEC:

• form productive linkages between healthcare units to the benefit of underserved frontier and rural communities,
• foster and encourage collaborative community-based health programs,
• increase the number of minority and underserved youth entering health education programs,
• serve as a resource, clearinghouse, and disseminator of health information,
• promote improved health and disease prevention through educational interventions,
• respond to emerging community-based needs regarding health issues,
• provide technical assistance on healthcare-related issues to underserved communities,
• contribute to achieving the goals of Healthy People 2010 and thereby improving the health status of frontier and rural constituents, and
• help implement collaborative community-based, multidisciplinary education and training for health professionals and health professions students.

The Montana AHEC has many programs which serve Montana’s health professionals, including student preceptorships, educational programs for health professionals and students, health professional recruitment activities, local community health care development assistance, rural health research, and telemedicine projects. Contact the Center at (406)994-6001, e-mail: sak@montana.edu or website: ahec.montana.edu.

Montana Office of Rural Health

The Montana Office of Rural Health (MORH) was established in 1987 with the overall mission to increase access to quality health care and improve daily functioning for rural and underserved Montanans through health promotion, disease prevention and reduction of the impact of illness, disease and disability. Montana is truly a rural-frontier state with 53 of its 56 counties designated either rural or frontier by federal definitions and with over 80% of its communities having populations of less than 3,000 people. The MORH seeks to accomplish its mission through the following four major goals and activities:

• to collect and disseminate rural health information state-wide;
• to improve recruitment and retention of health professionals into rural and underserved areas;
• to provide technical assistance in securing additional funding for rural health; and
• to coordinate rural health interests and activities across the state.

In essence, the MORH works to improve the health and well-being of all rural and underserved Montanans through advocacy, networking, collaboration, partnerships, education, outreach, research, and service. Contact the MORH at (406)994-5553. E-Mail: djones@montana.edu or Website: ahec.msu.montana.edu/ruralhealth.
Burton K. Wheeler Center

The Burton K. Wheeler Center at Montana State University in Bozeman promotes the public discussion, analysis, and eventual resolution of critical issues facing Montanans. The Center holds an annual Conference and business Roundtable, sponsors lectures, publishes conference reports, and maintains a Web page at www.montana.edu/wheeler.

The Wheeler Conference is the single most important yearly dialog in the state on pressing public policy questions. Topics have included tax policy, gambling, crime/corrections, education reform, and tribal sovereignty. Conference attendees include key policy makers and opinion leaders, legislators, state administrators, those with a direct connection to the subject at hand, and members of the general public from around the state and region. The conference highlight is always the keynote speaker, who in the past has included the Governors of Florida, Utah, Colorado, and Nevada; the President of Cargill Corporation; the Executive Director of the Native American Rights Fund and the Chair of the National Endowment for the Humanities.

The day-long Wheeler Roundtables focus more directly on economic problems and possibilities in Montana and the region. Held in various cities and towns in the state, Roundtables bring together the "players" on topics as diverse as capital formation, tourism, downtown revitalization, and the future of coal mining.

Past Conferences and Roundtables have influenced new legislation, administrative policy, and economic development. They are central forums for the examination of existing institutions and the source of new ideas.

The Wheeler Center has a close working relationship with Montana State University, but it is a non-partisan, independent, non-profit corporation with its own board of directors. The center depends entirely on private contributions for its programs and administration. The center is staffed by Executive Director Gordon G. Brittan, Jr., and Associate Director Julie Hitchcock. In keeping with the Center's goal to more closely involve students in the public policy arena, generous Wheeler fellowships are offered to several graduate students on an annual basis.

Contact the center at:
1102 South 6th
P.O. Box 170590
Montana State University
Bozeman, MT 59717-0590
Phone and Fax: 406-994-0356
E-mail: wheeler@montana.edu
Internet: www.montana.edu/wheeler.

Local Government Center

The goal of this outreach program affiliated with the Department of Political Science is to strengthen the capacities of Montana's county and municipal governments to deliver essential services efficiently. The Local Government Center conducts on- and off-campus training programs for local officials, provides direct technical assistance to local governments, and conducts applied policy research on community issues. The Montana Policy Review is published biennially by the Local Government Center.

Computer Facilities

MSU places high priority on the integration of information technology into the educational experience. To help meet this goal, the campus provides a wide variety of computer resources to students and faculty. Within departmental and campuswide computing facilities, students have easy access to nearly 800 microcomputers (mostly Windows), over 200 servers and workstations running the Unix and Windows operating systems, and a number of enterprise servers that meet campus demand for email, World Wide Web services, and other uses. A state-of-the-art, campus-wide, fiber optic network links seventy buildings to the campus network, to networks on other Montana University System campuses, to state government agencies, and to the Internet. Residence Life and Family & Graduate Housing have connected more than 3,200 residence hall rooms and married housing units to the ResNet network (www.montana.edu/resnet). This service enables around-the-clock educational opportunities. Because email is a vital element of campus communication, all MSU students can receive email accounts free of charge. An email account will remain active for as long as the student is registered at MSU, so projects can be carried along from year to year.

The Information Technology Center (ITC) operates several computer laboratories that offer over 300 Windows and Macintosh computers for general student use in Reid, Roberts, and Cheevers Halls and in two mini-labs in the Renne Library. In each of these locations, students can access any of a wide variety of software packages. Students commonly make use of word processing, spreadsheets, and graphics in preparing their homework. MSU currently provides the latest releases of the Microsoft Office Suite, AutoCAD, SAS, SPSS, and MathCAD, as well as other software for student microcomputer work. Instructors often incorporate these technologies into assignments. For more information see: greywolf.montana.edu/usapage/index.php

Residence Life, the Renne Library, and many academic departments provide similar facilities in other buildings on campus.

ITC also provides over 30 Smart Podiums located in campus classrooms. The Smart Podium incorporates a variety of technologies such as an Internet-ready computer equipped with Microsoft PowerPoint, an overhead projector, VCR, and DVD players, audio functions, and much more.

Museum of the Rockies

The Museum of the Rockies is a division of Montana State University and reports to the Provost. Students, faculty, and visiting scholars use its collections and exhibits for classes, research, and programs. Some museum curators teach on campus and some MSU professors hold adjunct appointments at the museum. Operating revenues are earned from admissions, programs, memberships, and the museum store. Additional support is provided by the University and the Museum of the Rockies, Inc., a private non-profit corporation. Funds for the original buildings and the 1989 expansion were provided by private sources.

The museum is accredited by the American Association of Museums. It attracts approximately 135,000 visitors a year from across the United States. The prehistory and history of the Northern Rocky Mountain region are
told through a series of permanent exhibits. Three galleries feature temporary and traveling exhibitions related to the region.

The world-class Taylor Planetarium hosts a variety of presentations including feature shows for children and adults, the majority of which are original productions, as well as school programs, live narrated night sky programs, and laser shows. A restored 100-year-old homestead is the centerpiece for a living history farm currently under development. The museum offers a variety of educational programs for people of all ages including tours, classes, lectures, field trips, field schools, and special events. Admission and membership discounts are offered to MSU students.

Students may now pursue an undergraduate minor in Museum Studies through a cooperative effort between the Museum of the Rockies and the Department of History and Philosophy. The 24-credit minor will help prepare students for a career in the museum world or a graduate degree program.

KUSM, Montana PBS, is the primary public television provider for the state of Montana. Through over-the-air broadcast and cable distribution, PBS services, instruction, and outreach activities are provided to viewers throughout Montana. KUSM is committed to enhancing the quality of life for all people by bringing them educational and informational programs.

KUSM shares facilities and staff with the Department of Media and Theatre Arts. Faculty, staff, and students are an important part of the KUSM mission. Programs, productions, and technical operations involve students in every conceivable way: as producers, directors, camera operators, audio technicians, board operators, and lighting technicians. Students work as office staff, maintain the video tape library, and edit and produce promotional materials. The close association with KUSM allows students to gain valuable, practical experience that serves them well in preparing for future professional employment.

Support for KUSM comes from active "Fund Raising" throughout Montana, state funding, university funding, and a federal grant from the Corporation for Public Broadcasting.

MSU Alumni Association

The Montana State University Alumni Association was established in 1903 by a small group of former students who wanted to remain connected to and involved with their alma mater. The association celebrated its centennial in 2003. Alumni are defined as those former students who completed a quarter or semester of coursework at Montana State.

The Alumni Association is committed to building positive relationships between Montana State University, its alumni and friends. This mission is carried out by keeping alumni informed through the Collegian, a quarterly newsletter and Montana State-news, a monthly electronic newsletter. Class reunions, Homecoming, social gatherings, receptions and dinners are held around Montana and throughout the country bringing alumni together to learn more about Montana State. A special shopping site: www.bobcatshopper.com has been created for alumni and a directory of alumni is available online. Your Alumni Association is here to serve you.

The Alumni Association's programs are supported by annual and lifetime dues. All alumni are encouraged to participate in the Alumni Association by becoming a member and enjoying the benefits of the organization.

Located on campus in the Foundation and Alumni Center, 1501 So. 11th Street, the Alumni Association welcomes all alumni, family and friends. Contact can be made by emailing alumni@montana.edu or through the website: www.montana.edu/alumni. Telephone numbers 1-800-842-9028 or 1-406-994-2401.

MSU Foundation, Inc.

The MSU Foundation, established in 1946, is playing an increasingly important role in support of the university. As an independent, not-for-profit corporation, the Foundation is entrusted with raising and administering private, donated funds according to the donor’s wishes and the university's special needs.

On behalf of the university, the Foundation receives contributions from a variety of sources, including individuals, corporations, and foundations. In addition to direct gifts, the Foundation benefits from gifts received as a result of bequests and from the establishment of life-income trusts, annuities, and other deferred giving arrangements.

MSU is tax-assisted rather than tax-supported. In greater numbers and frequency, alumni and friends are helping to fill the gap by supporting special programs such as scholarships, new equipment and facilities, improvements in laboratories and classrooms, professorships, and awards for scholarly achievements.

The Foundation coordinates the annual fund drive, which, through phonathon and direct mail efforts, provides support to MSU’s colleges and departments.

The Foundation’s support is not meant to replace the state’s obligation to fund higher education, but to enhance the quality and scope of MSU’s programs. Both current gifts and earnings from endowments are used to meet these special needs.

The Foundation is located at 1501 South 11th Avenue in the Foundation and Alumni Center; the phone number is 406-994-2053 or 800-457-1696. Visits and calls are welcome. Go to www.montana.edu/foundation or e-mail: foundation@montana.edu

MSU Parent/Family Association

One of the most important contributions families can make to their son’s or daughter’s success at Montana State University is to be involved in their student’s educational experience.

All parents and family members of MSU students are given automatic membership in the MSU Parent/Family Association. No dues are charged.
Parents are represented by a 30-member advisory board comprised of families from across the country. The board is responsible for designing programs to benefit families and students, and is a sounding board for the University administration.

Presently, the PFA offers several notable programs and events designed to encourage a strong relationship between families and the university. They include:
• Parent/Family Fall Weekend. Fall Weekend is always held on a football weekend and features information sessions, outdoor activities, meals and live entertainment. The event offers an opportunity to familiarize yourself with campus, meet other parents, and spend some quality time with your student. There are panel discussions designed to meet your needs, faculty lectures and social events that the entire family can enjoy. Registration is required and invitations are mailed to your home in early September.
• Parent Handbook. Each fall, the families of our freshmen and transfer students receive MSU A to Z, a handbook containing pertinent and concise information to help families guide their students through the university years. Now this information is available to you online at www.montana.edu/pfa/pfa_handbook.html.
• Parents Fund. The Parent's Association fundraises to support various PFA activities and projects, including a mini-scholarship fund, library and computer fund pools, and other projects which benefit students directly.
• Orientation-Parent/Family Urban Expedition. During summer orientation sessions, the Parent/Family Advisory board sponsors an Urban Expedition. The hike explores the neighborhoods and trails of Bozeman. It’s great way to become familiar with the Bozeman community. Meet other parents and enjoy summertime in Bozeman.
• Advisory Board. Who have an interest in working with the university administration on issues that affect students are invited to join the Parent/Family Advisory Board.

The Office of Communications and Public Affairs assists this organization. Call 406-994-4571.