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BOZEMAN

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Colleges of
Agriculture
Arts and Architecture
Business
Education, Health and Human Development
Engineering
Letters and Science
Nursing
and
Graduate Studies

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 Commission on Colleges of the Northwest Association of Schools
and Colleges, 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 2000

Please bring this bulletin with you for use in registration.

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Cover: South Fork of Deep Creek in the Absaroka Wilderness Area (Paradise Valley) southeast of Bozeman. Photo by Tim Egan © 2000.

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ON JANUARY 21, 1994, the Montana Board of Regents voted unanimously to restructure the Montana University System. Under the plan, Eastern Montana College (Billings) and Northern Montana College (Havre), as well as the vocational-technical centers in Great Falls and Billings were renamed and consolidated with Montana State University in Bozeman.

The Regents assigned new names to all units: MSU–Bozeman; MSU–Billings which now includes the Billings College of Technology; MSU–Northern; and MSU College of Technology–Great Falls.

Since the consolidation, the MSU campuses have emphasized course transferability, sharing resources, telecommunications, and providing more and better services to students everywhere.

This catalog is specific to Montana State University–Bozeman, but the appendix includes a comprehensive academic program guide to all the four-year and two-year degrees as well as the certificate programs available on the MSU campuses. For additional information, please contact:
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 opportunities 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 discrimination are subject to disciplinary actions when instances of discrimination are identified and confirmed. Knowingly filing false complaints of discrimination or knowingly providing false testimony will likewise 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 discrimination and will lead to appropriate disciplinary action against offenders.

Montana State University-Bozeman affords any student, employee, applicant 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.

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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 non-verbal, 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 requirements of an academic program, or a person's ability to benefit from a university service or to 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 announcement; Employee Relations and Services (406) 994-3583; TDD: (406) 994-4331 if the position is for classified employment, or

Human Resources/Affirmative Action (406) 994-2042; TDD: (406) 994-4191 if the position is for faculty or contract professional employment.

2. To request accommodation in employment, including concerns about job duties, contact the direct supervisor.

3. To request accommodation when applying for admission to the University, contact:

The Director of New Student Services, (406) 994-2452, TDD (406) 994-3334, if applying for undergraduate admission; the Dean of Graduate Studies, (406) 994-4145, if applying for graduate admission.

4. To request accommodation when applying for housing or to request housing accommodation, contact:

Residence Life and University Food Service (406) 994-2661, TDD (406) 994-5808, if applying for housing in the residence halls; Family Housing (406) 994-3730, TDD (406) 994-5808, if applying for family or graduate housing.

5. To request accommodation related to an academic program or requirement, class, or other educational opportunity or activity, contact:

The Office of Disabled Student Services, Room #155, Strand Union Building, (406) 994-2824. A student who desires accommodation for a disability must submit appropriate documentation of the disability and request for accommodations to this address.

6. To request public accommodation or accommodation to participate in a university sponsored or hosted event, contact:

Event sponsor or the University Compliance Officer (406) 994-2042.

UNIVERSITY COMPLIANCE OFFICER

The person responsible for the University's compliance efforts is:

Corliss Gee Bush
Human Resources/Affirmative Action Director

210-C Montana Hall
Montana State University-Bozeman
Bozeman, MT 59717-2430

Phone: (406) 994-2042
TDD: (406) 994-4191
Fax: (406) 994-2893
E mail: corkyb@montana.edu
TELEPHONE NUMBERS
Area Code 406
If dialing from an on-campus phone, "994" should be excluded.
Numbers for academic departments are listed with their course descriptions.

Academic Affairs .................. 994-4371
212 Montana Hall
Administration and Finance ...... 994-4361
201 Montana Hall
Admissions ...................... 994-6617
101 Montana Hall
Affirmative Action/Human Resources ............. 994-2042
210C Montana Hall
Agricultural Experiment Station . 994-3681
202 Linfield Hall
Agriculture, College of .......... 994-3681
202 Linfield Hall
Alumni Affairs .................. 994-2401
Foundation/Alumni Center, 11th Ave. and Lincoln St.
Arts and Architecture, College of 994-4405
217 Cheever Hall
"Ask Us" Information Center .... 994-4636
Strand Union Building
ASMSU .................................. 994-2933
281 Strand Union Building
ASMSU Day Care Center ........ 994-4700
1206 W. Garfield St.
Athletics ....................... 994-4221
Fieldhouse
Bookstore ......................... 994-2811
185 Strand Union Building
Business, College of .......... 994-4425
408 Reid Hall
Business Office .................. 994-2701
102 Montana Hall
Career Services ................. 994-2353
125A Strand Union Building
Communications Services .... 994-2721
416 Calbertson Hall
Conference Services .......... 994-3333
280F Strand Union Building
Counseling and Psychological Services .......... 994-4531
211 Swingle Health Center
Education, Health and Human Development, College of .... 994-4153
250 Reid Hall
Engineering, College of .......... 994-2272
212 Roberts Hall
Extended Studies and Summer Session .............. 994-6683
204 Calbertson Hall
Extension Service ................. 994-1750
203 Calbertson Hall
Facilities Services .......... 994-2001
418 Physical Plant, S. 6th Ave. and Grant St.
Family Housing ................ 994-3730
1502 W. Garfield St.
Financial Aid Services ........ 994-2845
135 Strand Union Building
Foundation, MSU ................ 994-2053
Foundation/Alumni Center, 11th Ave. and Lincoln St.
General Studies ............... 994-3532
418 Reid Hall
Graduate Studies, College of 994-4145
108 Montana Hall
Health Service .................. 994-2311
121 Swingle Health Center
Honors Program ................ 994-4110
108 Quad D
Information Technology Center .... 994-3042
45 Renne Library
International Education ... 994-4031
408 Calbertson Hall
Interuniversity and Recreation .... 994-5000
202 Shroyer Gym
KGLT Radio ...................... 994-3001
325 Strand Union Building
KUSM Television ................ 994-3437
172 Visual Communications Building
Letters and Science, College of .... 994-4288
2-205 Wilson Hall
Libraries ....................... 994-3119
600 E. Kagy Blvd.
Native American Studies .......... 994-3881
2-152 Wilson Hall
New Student Services ........ 994-2452
120 Hamilton Hall
Nursing, College of ........... 994-3784
101 Montana Hall
Orientation Office ............. 994-2827
120 Hamilton Hall
Outdoor Recreation Center ...... 994-3621
SOB Barn
Parent/Family Association ...... 994-4571
106 Montana Hall
Personnel and Payroll Services .... 994-3583
9 Montana Hall
Police, Campus .................. 994-2121
Huffman Building
Post Office, Campus ........... 994-2672
Calbertson Hall
President's Office .............. 994-2341
211 Montana Hall
Provost ......................... 994-4371
212 Montana Hall
Registrar ....................... 994-2601
201 Montana Hall
Research and Creative Activities .... 994-2891
207 Montana Hall
Residence Life and Food Services .... 994-2661
31 Hedges Complex
Resource Center ................ 994-2824
155 Strand Union
Strand Union Bldg. Information .... 994-3082
Student Activities Office ........ 994-3591
282 Strand Union Building
Student Affairs ............... 994-2826
120 Strand Union Building
Student Employment Office ...... 994-5859
135 Strand Union Building
Strand Union Bldg. Information .... 994-3082
Summer Session ............... 994-6683
204 Calbertson Hall
University Police ............. 994-2121
Huffman Building
University Relations .......... 994-4571
106 Montana Hall
Women's Center ............... 994-3886
15 Hamilton Hall
WWAMI Medical Program .......... 994-4411
326 Leon Johnson Hall

MSU-Billings
Chancellor ................. 657-2300
Academic Vice Chancellor ..... 657-2367
Administrative Vice Chancellor ... 657-2155
Continuing Education ........ 657-2203
Facilities Services ............ 657-2309
Financial Aid ................. 657-2188
Graduate Studies and Research .. 657-2288
Library ....................... 657-2262
Registrar ................. 657-2303
Students Affairs/Vice Chancellor 657-2307
University Relations .......... 657-2268

MSU College of Technology-Great Falls
Administration ................. 771-4305
Admissions and Registrar ...... 771-4312
Business and Finance .......... 771-4321
Community and Continuing Education ........... 771-1240
Distance Education Coordinator . 771-4309
Financial Aid .................. 771-4304
Public Relations ............. 771-4314

MSU-Northern (Havre)
Chancellor ................. 265-3720
Academic Affairs, Vice Chancellor 265-3726
Academic and Student Affairs ... 265-3760
Administration, Vice Chancellor . 265-3733
Extended Learning ............. 265-3790
Graduate Studies ............. 265-3798
Library ....................... 265-3706
Registrar ................. 265-4190
University Relations ........ 265-3727
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University Relations
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Women's Center
Betsy Danforth, B.A., Director

WWAMI/Medical Science
Stephen J. Guggenheim, M.D., Director
WELCOME TO MSU

We are a four-year public, comprehensive, land grant university with undergraduate and graduate programs in liberal arts, basic sciences, the professional areas, agriculture, architecture, business, nursing, education and engineering.

Campus

The 1,170-acre campus comprises more than 40 classroom and administrative buildings, including 10 residence halls, four cafeterias, a Health and Physical Education Complex, the Museum of the Rockies and the Strand Union Building which serves as the center of campus activities and a 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-Bozeman; 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 56 foreign countries. Montana residents comprise 73 percent of the student population, and 25 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 20 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 and mountain lakes and streams, is a veritable year-round recreational paradise.

Founding

Montana State University-Bozeman 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 from private and public grants.

Instruction

Resident instruction at MSU-Bozeman, 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-Bozeman is administered through the Colleges of Agriculture; Arts and Architecture; Business; Education, Health and Human Development; Engineering; Letters and Science; and Nursing.

MSU-Bozeman currently offers bachelor's degrees in 50 fields with many diverse options, the master's degree in 39 fields, and the doctorate in 13. Programs particularly appropriate for students in applied research or teaching are available.
College Enrollments

College of Engineering 18%
College of Business 9%
College of Letters and Science 19%
College of Nursing 4%
General Studies 10%
College of Arts and Architecture 7%
College of Graduate Studies 11%
College of Education, Health and Human Development* 11%
College of Agriculture 11%

*Athough nearly one-quarter of MSU graduates are recommended for teaching certification by the College of Education, Health and Human Development, only 11 percent are actually enrolled in this college.

Agricultural Experiment Station

The Agricultural Experiment Station was established at Montana State University by acts of the Legislature of Montana in 1895 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 seven academic departments. The majority of the faculty are located in Bozeman with additional faculty located at the agricultural research centers. 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.

Montana Agricultural Experiment Station System

![Map of Montana Agricultural Experiment Station System](image)
Extension Service

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

The Extension Service was created by the federal Smith-Lever legislation enacted in 1914. Programs of the Extension Service are funded cooperatively through a legal partnership among federal, state and county governments. The focal point for Extension programs is the local Extension office. In Montana, these offices are located in 49 counties and four tribal reservations. Local county 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 the Extension Service address societal needs in the general areas of agriculture, family living, community and economic development, and youth development. One of the best-known programs is the youth development program carried out through 4-H. Another unit of the Extension Service is the Montana Fire Services Training School, which has the responsibility of providing training for paid and volunteer fire fighters throughout the state.

The Extension Service is a unit of the Montana State University System and is administered by the MSU-Bozeman campus.

Outreach

Extended Studies

The Extended Studies office administers and coordinates on- and off-campus instruction in the form of courses, institutes, and conferences for individuals not regularly enrolled at MSU. Extended Studies' purpose is to extend the educational resources of the University to the citizens of Montana. Credit and non-credit courses are offered at various locations across the state. Increasingly, instruction is provided through the use of telecommunications technologies for distance learning, such as interactive video and telecomputing. Extended Studies course fees vary and are established on a per-course basis.

Organizations, professional groups, and interested individuals are invited to contact Extended Studies for additional information concerning credit and non-credit course offerings.

Burns Telecommunications Center

In 1993, Montana State University-Bozeman founded a state-of-the-art telecommunications facility to explore next generation technologies, supporting both the outreach and educational missions of the University. The Burns Telecommunications Center (BTC) opened its doors in the Engineering/Physical Sciences Building in February 1997 and functions as a self-sustaining, multipurpose, instructional communications facility at MSU. The BTC was named for U.S. Senator Conrad Burns, a national advocate for enhancing rural vitality using affordable telecommunications resources. The BTC is a high-tech community resource that joins with individuals, schools, nonprofit organizations, and businesses to assist them in using multimedia telecommunications and networking technologies to enhance their programs and services. In collaboration with MSU departments and other external organizations, the BTC develops multimedia materials and supports distance learning and training.

Summer Session

The theme for Summer Session at MSU-Bozeman is "Mountains and Minds," depicting a blend of extraordinary course offerings and events, integrating the mental and physical, while taking advantage of Bozeman's outstanding natural setting. Students may accelerate, get an early start, catch up, try out a new field, or intensify research. High school students may earn university credits prior to graduation. Cultural and recreational opportunities unique to MSU-Bozeman bring people from throughout the nation to the area for summer study, conferences, and distinctive seminars. Many summer offerings relate to the unique ecological and historical features of Montana. Fine arts and humanities opportunities also are provided. Many summer courses are designed especially for teachers. Summer-only graduate degree programs are available in education, applied psychology, business education, and mathematics education. A Summer Bulletin is published announcing and describing course offerings and special summer features. Requests for the Bulletin or particular information may be made through the Office of Extended Studies. Dates for future summer sessions are available in the Academic Calendar.

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.

Montana Office of Rural Health

The Montana Office of Rural Health (MORH) was established in 1987 with the overall mission of improving the quality of life for all rural Montanans by (1) ensuring affordable, accessible, high quality health care, (2) facilitating enhanced self-care and supportive care in the rural home setting, and (3) promoting healthy lifestyles that prevent disease, disability and premature death. Montana is truly a rural-frontier state with 54 of its 56 counties designated either rural or frontier by federal definitions and with over 80 percent of its communities having populations of less than 3,000. The MORH seeks to accomplish its mission through the following four major goals and activities:

• to collect and disseminate information within the state;
• to improve recruitment and retention of health professionals in rural areas;
• to provide technical assistance to attract more federal, state and foundation funding for rural health; and
• to coordinate rural health interests and activities across the state.
In essence, the MORH works to improve the health of all rural Montanans through advocacy, networking, partnerships, education, outreach, research and service.

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 90 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.

Associated Centers and Activities

MSU-Bozeman Libraries

Renne Library is a multi-story building centrally located on campus next to the Strand Union Building. It was constructed in 1960-61 with funds obtained from student fees and contributions. The main facade is decorated with ceramic sculptures by Rudy Autio. The interior features Heathcote Court, a sky-lighted central atrium named for Lesley M. Heathcote who was library director at the time the building was planned and built. The court features a fountain pool, plants and a sculpture by George Conkey, a former assistant professor at MSU.

An experienced faculty provides information services. Computerized, online information searching using DIALOG, CAS and MEDLINE is offered as well as CD-ROM and Web-based offline searching of selected heavily-used information data bases; Internet access is widely available. Interlibrary loan and document delivery are also offered to users. Arrangements may be made for library faculty to provide both formal and informal instruction in the use of the facilities and the collections.

A state-of-the-art Web-based catalog and circulation system were implemented in 1998. Terminals providing access are located throughout the MSU-Bozeman Libraries and there is remote campus network or Internet access to the catalog and numerous other databases. Photocopy services and word processing facilities are provided, and an Arkenstone reading machine is available for authorized users with visual disabilities.

The collection of print materials is particularly strong in science, technology, and the health sciences. There is a wide range of U.S., Montana, and Canadian government publications. Many newspapers, magazines, and government documents are accessible on microforms for which readers and reader-printers are provided.

The Special Collections section provides resources on Montana and its history. Strengths include the Yellowstone National Park Collection, Montana and Northwest History, the M.L. Wilson Agricultural Collection, the Trout and Salmonid Collection, and the B.K. Wheeler Collection. The Archives is the designated depository for MSU-Bozeman's official records as well as private records that pertain to the University and its history.

The Creative Arts Library is a modern facility located in Cheever Hall in the Creative Arts complex. Primarily a resource collection for the Schools of Art and Architecture, it houses books and journals for these fields. Special visual resources include a substantial slide collection. This library frequently features exhibits and displays of interest to the campus community and the general public.

The MSU-Bozeman Libraries is a member of the OCLC Network, a regional bibliographic utility.

For library access or information see the library's Web site at http://www.lib.montana.edu/

A.C.E. Language Institute

The Language Institute is sponsored by the American Cultural Exchange (A.C.E.) of Seattle, Washington. This on-campus program provides an English language academic preparation program for students whose native language is not English. Seven-week sessions are offered throughout the year and are taught by highly trained instructors. The program offers six levels of English instruction designed to meet students' needs at their particular language level. Students who complete the appropriate level and receive a full recommendation from the Language Institute can apply to
Montana State University without taking the TOEFL exam.

Language Institute student services include: airport pick-up, homestay placement, academic advising, and help with college and university applications and visa information. The university setting offers Language Institute students the opportunity to meet Americans and to participate in campus activities. The Institute also offers both credit and remedial courses in English as a Second Language for students enrolled in a university program. Students should consult the Schedule of Classes for specific course listings.

For more information, contact:
A.C.E. Language Institute
Montana State University
1106 S. 6th Ave.
Bozeman, MT 59717
USA
phone: 406-585-9832
fax: 406-585-9838
e-mail: ielimsu@aol.com

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

Animal Resources Center
The 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 coordinates and facilitates research activities in biomedical and health science areas; facilitates and assists with institutional grant writing; supervises the university's Institutional Review Boards; oversees centralized research resources in the life sciences; co-hosts a "Health Topics Brown Bag Lunch Series" for faculty, staff and students interested in health, healthcare and health-related issues; and maintains files on research ethics and misconduct.

Intellectual Property Administration and Technology Transfer (IPATNT)
This office provides for coordination and administration of MSU-Bozeman 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 in licensing negotiations.

MSU TechLink Center
TechLink is a technology transfer and commercialization partnership which matches the technological needs of client companies with resources found throughout MSU and the federal laboratory system. Working closely with public, private and university programs, TechLink also provides ongoing support in the process of adapting, integrating, and commercializing technology.

Montana University System Water Center
The Montana University System Water Center was established by a 1964 Act of Congress which created 54 centers, at all land grant universities. The structure of the center includes a staff and director on the Bozeman campus (101 Huffman Bldg.; ph: 994-6690; e-mail: wwwrc@montana.edu), and associate directors at the University of Montana's Missoula and Butte campuses.

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 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 demonstrations of promising technologies. The center also administers interdisciplinary grant programs for university faculty and serves as a central switchboard for water information.

In-house and scholarship opportunities exist for motivated students with interest 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 focuses on the rehabilitation of disturbed lands. Included are active or abandoned mined lands and constructed wetlands; air pollution impacts on soils, vegetation, and animals; acid mine drainage problems; and the cleanup of inorganic hazardous waste sites.

Montana NSF-EPSCoR Program
This overall project encompasses many programs which include: invited speakers; undergraduate scholars; graduate enhancement; new faculty hiring and start-up; equipment; SBIR Phase 0; faculty development; co-funding certification; and MONTS competitive grants. 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 the University of Montana work together to promote research and its potential for increasing economic growth throughout the state under this grant. Most recently the SBIR Phase 0 program has 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 of the aspects of the NSF-EPSCoR program in Montana can be accessed when you visit http://www.homepage.montana.edu/~wwmonts/Homepage.htm or by contacting the NSF-EPSCoR office at 994-2080.

The Mountain Research Center
The Mountain Research Center (MRC) develops, synthesizes and disseminates knowledge on the interrelated natural and socio-economic processes influencing mountain ecosystems. In addressing the impact of human activities on mountain systems, the MRC focuses on how global changes (e.g., increasing carbon dioxide, climatic variation, changes in land use/cover and
biodiversity) are manifest at regional scales. Mountain ecosystems provide unique opportunities to detect and analyze global change processes due to their strong altitudinal gradients coupled with sharp contrasts between areas of greater or lesser direct human impact.

The center's research and education program focuses on several themes relating global change to mountain environments, specifically: (1) climate variability over seasons to centuries; (2) changes in land cover and biodiversity; (3) integrated assessment of mountain watersheds; and (4) carbon cycle dynamics. Faculty and graduate students associated with the MRC conduct research and educational activities in the Greater Yellowstone Ecosystem as well as in mountains around the world.

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-Billings, MSU-Bozeman and MSU-Northern.

The center contributes, in the landgrant tradition, to the university's programs of instruction, research, and outreach by conducting on- and off-campus training programs; by providing direct technical assistance to Montanans and by 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 26 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.

The Museum of the Rockies

The Museum of the Rockies is a division of Montana State University-Bozeman 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-Bozeman 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 150,000 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 illustrating the exhibit theme of One Place Through All of Time. 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-Bozeman students.

During the summer, the museum administers a paleontology field program at Egg Mountain, the site where evidence of maternal nurturing in dinosaurs was first uncovered. The area is now owned and protected by the Nature Conservancy. During two-day or week-long sessions, amateur paleontologists work alongside professionals as they learn about geology, field techniques and the latest theories in paleontology.

The Museum's phone number is 406-994-2251 and fax number is 406-994-2682. Call 406-994-DINO for recorded information or visit the Museum's home page at http://www.montana.edu/wwwmor/.

KUSM TV

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 services.

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 on office staff, maintain the videotape 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 through a combination of an active "Friends" group throughout Montana, state funding, university funding, and a federal grant from the Corporation for Public Broadcasting.
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 a 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. By working together, the Foundation and university are ensuring a solid future as we position ourselves to sustain a tradition of excellence into the next century.

The Foundation is housed in the MSU Foundation and Alumni Center on campus at 1501 South 11th Avenue. Alumni, family and friends are always welcome. The phone numbers are (406) 994-2401 and (800) 842-9028. Contact the Association through e-mail at alumni@montana.edu or check out the Web site: www.montana.edu/alumni. Office hours are 8 a.m. to 5 p.m., Monday through Friday.

Computer Facilities

MSU-Bozeman places high priority on the integration of information technology in the educational experience. To help meet this goal, the campus provides a wide variety of computer resources to students and faculty. Within departmental and campus-wide computing facilities, students have easy access to nearly 800 Windows and Macintosh microcomputers; over 200 minicomputers and workstations running Unix, Windows NT and VMS; and a number of enterprise servers that meet the demand for e-mail, World Wide Web services and other uses.

A state-of-the-art, campus-wide, fiber optic network links more than 55 buildings to the campus network, to networks on other Montana State University system campuses, to state government agencies and to the Internet. The Residence Life office has connected more than 3200 dormitory rooms and married housing units to the network. This innovation enables around-the-clock educational opportunities.

E-mail is a vital element of communication. All MSU students can receive e-mail accounts free of charge. An e-mail account will remain active for as long as the student is registered at MSU-Bozeman, so projects can be carried along from year to year.

The Information Technology Center (ITC) operates computer facilities, offering Windows 98, Macintosh and Unix capabilities in Reid, Roberts and Cheever Halls for general student use. In each facility, 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-Bozeman currently provides the latest releases of Windows, WordPerfect, Quattro, the Microsoft Office Suite, AutoCAD and others for student microcomputer work. Instructors often incorporate use of these products directly in assignments. Similar facilities are provided by Residence Life in each of the dorms, by the MSU Libraries and by many academic departments.

For those students unfamiliar with computing or with required software packages, ITC provides a variety of short courses and seminars. Each academic year, ITC seminars are taught to over 1500 students. ITC also staffs each of the primary computer facilities with trained consultants ready to assist users who are unfamiliar with the systems and software.

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.

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

MSU Alumni Association

The MSU Alumni Association sponsors a variety of services and activities for alumni, students, faculty, and friends of Montana State University-Bozeman. These activities and services keep alumni in touch with their alma mater.

The Alumni Association was organized in 1903 by a handful of former students who were concerned for the welfare of current students. The Association today continues to sponsor such traditional activities as Homecoming and class reunions, and has expanded its programs to include district scholarships, the Awards for Excellence banquet for students and faculty, Cat/Griz satellite TV parties across the country and events held both in and out of state. The Montana State Collegian magazine and newspaper keep alumni informed of university happenings. The magazine is a special benefit of Alumni Association membership.

The Alumni Association's programs are supported by annual dues memberships of $35 single and $50 family. Lifetime memberships are available for $500 per household payable in one lump sum or $120 per year if paid over five years.

The Alumni Association is 406-994-2053 or 800-457-1696. Visits and calls are welcome.

Montana State University-Bozeman
• promote improved health and disease prevention through educational interventions
• respond to emerging community-based needs regarding health issues
• provide technical assistance on health-care-related issues to underserved communities
• contribute to achieving the goals of Healthy People 2000 and Healthy People 2010 and thereby improving the health status of frontier and rural constituents
• 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.

**MSU Parent/Family Association**

One of the most important contributions families can make to their son’s and/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.** Activities during the weekend, held each October, are designed for MSU families and their students to enjoy together and include athletic events, social hours, information sessions and great campus entertainment. Invitations are sent directly to parents.

• **Parent Handbook.** An invaluable tool for students and parents alike, this information source is mailed to families of freshmen and transfer students.

• **Parent Volunteers.** Opportunities are available for parents to volunteer their time with the Alumni Office, Career Services Office or with New Student Services (recruiting).

• **Parent Fund.** This fund provides support for various PFA activities and projects, including a mini-scholarship fund, library and computer fund pools, and other projects which benefit students directly.

• **Advisory Board.** This board is of interest to those who would like to work with the university administration on issues that affect students. The Office of University Relations assists this organization; call 994-4571.

**Burton K. Wheeler Center**

The Burton K. Wheeler Center at Montana State University-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 (www.montana.edu/wheeler).

The Wheeler Fall 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. Past keynote speakers have 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 develop-