



THE GRADUATE SCHOOL | MONTANA STATE UNIVERSITY

Department of Land Resources & Environmental Sciences

DEGREES OFFERED

- M.S. Land Resources and Environmental Sciences
- M.S. Land Rehabilitation
- M.S. Entomology
- Ph.D. Ecology and Environmental Sciences



Department Address:
 Land Resources & Environmental Sciences
 334 Leon Johnson Hall
 Montana State University
 PO Box 173120
 Bozeman, MT 59717-3120
 Phone: 406-994-3090
 Fax: 406-994-3933
 Email: lresinfo@montana.edu
 Web: <http://landresources.montana.edu/>

The Department of Land Resources and Environmental Sciences (LRES) provides science-based teaching, research/creative activity, and outreach/public service. Our role and scope is to excel in the discovery and communication of how natural and managed environments and their elements function in an era of global change. We bring together disciplines related to soils, microorganisms, insects, plants, climate, and water to address issues affecting cropland, rangeland, forests, reclaimed land, extreme environments, and protected natural areas.

Through our research, outreach, and teaching, we strive to integrate scientifically-sound information across spatial and temporal scales to enhance productivity of managed lands, facilitate knowledge-based adoption of sustainable practices, and produce broadly educated students prepared for careers in the environmental sciences.

Our unique location in the greater Yellowstone ecosystem and Montana's golden triangle for crop production provides unparalleled laboratories as well as diverse opportunities for recreation. LRES faculty members conduct cutting-edge investigations in specialized laboratories, modern greenhouses, and in diverse laboratories ranging from the natural areas to production areas in the state and region. We utilize public, farm and ranch lands across the state and region. Our faculty members are participants in and/or collaborators with the Institute of Ecosystems, Spatial Sciences Center, Environmental Analytical Lab, Center for BioFilm Engineering, Subzero Research Facility, Schutter Diagnostic Lab, Biological Contamination Facility, Center for Invasive Species Management, Thermal Biology Institute, and Research Centers throughout the state.

The research conducted in LRES is recognized nationally and internationally for its contributions to environmental sciences and land resources management.



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GRADUATE DEGREE PROGRAMS

The LRES Department offers advanced study leading to an M.S. degree in Land Resources and Environmental Sciences, an M.S. in Land Rehabilitation, an M.S. in Entomology or a Ph.D. degree in Ecology and Environmental Sciences. Thesis and dissertation research problems are related to the diverse research projects of faculty. The department conducts research projects in land rehabilitation, restoration ecology for land and streams, watershed science, hydrology, biogeochemistry, land-atmosphere exchange, plant and soil ecology, environmental microbiology, cropping systems and sustainability, environmental risk assessment, integrated pest and weed management, invasive plant ecology, and insect behavior and ecology. For a list of our faculty and their areas of research, visit our graduate programs section on our web page at <http://landresources.montana.edu/>

GRADUATE ADMISSION INFORMATION

Students seeking admission to graduate status in the Department of Land Resources and Environmental Sciences must hold a B.S. or M.S. degree and have a record of appropriate scholarship in areas closely related to land resources and environmental sciences. They are expected to present evidence of college level training and mastery in biology, chemistry and mathematics sufficient to provide a good background for further study at the advanced level. Students with deficiencies may be required to take background courses to make up these deficiencies before or after being approved for acceptance. A minimum of 3.0 on a 4.0 scale is required by The Graduate School for admission. We require the student to take the GRE (Graduate Record Examination) and the score numbers are included in the application materials. In addition to these requirements, International students must have a TOEFL (English Proficiency) number score of 80 (Internet), 550 (paper) or 213 (computer). Please submit the online application to The Graduate School (<http://www.montana.edu/wwwdg/>) be prepared to also submit a one page narrative explaining your interest in our department, GRE scores, transcripts, and letters of recommendation. An appropriate faculty mentor must agree to serve as the student's major advisor as a condition of admission.

GRADUATE ASSISTANTSHIPS

Assistantship awards are dependent on availability of funding. In general, assistantships are awarded through a faculty advisor. In the event that financial aid is not available, you must have your own financial resources. Other financial assistance is awarded on a competitive basis, with prior academic performance serving as a major criterion.



FACULTY

- JACK BROOKSHIRE, Ph.D., 2006,
Virginia Polytechnic Institute & State University
- JOHN DORE, Ph.D., 1995,
University of Hawaii at Manoa
- RICHARD E. ENGEL, Ph.D., 1983,
University of Minnesota
- STEPHANIE EWING, Ph.D., 2007,
University of California, Berkeley
- CHRISTINE M. FOREMAN, Ph.D., 1999,
University of Toledo
- ANTHONY S. HARTSHORN, Ph.D., 2003,
University of California, Davis
- WILLIAM P. INSKEEP, Ph.D., 1985,
University of Minnesota
- CLAIN A. JONES, Ph.D., 1998,
Montana State University
- JANE K. KLASSEN, Ph.D., 1995,
University of Wisconsin, Madison
- RICK L. LAWRENCE, Ph.D., 1998,
Oregon State University
- HONGYI LI, Ph.D. 2010,
University of Illinois, Champaign
- JEFFREY L. LITTLEFIELD, Ph.D., 1986,
University of Wyoming
- JANE MANGOLD, Ph.D. 2004,
Montana State University
- BRUCE D. MAXWELL, Ph.D., 1990,
Oregon State University
- TIMOTHY R. MCDERMOTT, Ph.D., 1989,
University of Minnesota
- FABIÁN MENALLED, Ph.D., 1996,
University of Massachusetts
- PERRY R. MILLER, Ph.D., 1992,
University of Minnesota
- KEVIN M. O'NEILL, Ph.D., 1981,
Colorado State University
- ROBERT PAYN, Ph.D., 2009
Colorado School of Mines
- ROBERT K. D. PETERSON, Ph.D., 1995,
University of Nebraska
- GEOFFREY C. POOLE, Ph.D., 2000,
University of Montana
- SCOTT L. POWELL, Ph.D., 2004,
Montana State University
- JOHN C. PRISCU, Ph.D., 1982,
University of California, Davis
- LISA J. REW, Ph.D., 1993,
University of Reading, Britain
- TRACY M. STERLING, Ph.D., 1988,
University of Wisconsin
- PAUL C. STOY, Ph.D., 2006,
Duke University
- AMY A. TROWRIDGE, Ph.D. 2012,
University of Colorado, Boulder
- DAVID M. WARD, Ph.D., 1975,
University of Wisconsin
- DAVID K. WEAVER, Ph.D., 1990,
McGill University
- CATHY ZABINSKI, Ph.D., 1991,
University of Minnesota