Research Core Facilities

The university's research core facilities are administered to promote excellence in research, innovation, and graduate education at the University of Oregon. To that end, these specialized facilities provide access to specific types of research capacity—equipment, material, data acquisition, data analysis, consultation and expertise, and other services.

Aquatic Animal Care Services

Tim Mason, Manager
541-346-4598

Aquatic Animal Care Services provides support for research involving fish and other aquatic vertebrates. Its primary duty is to support the Zebrafish International Research Center, which has recently been expanded with the support of a National Institutes of Health American Recovery and Reinvestment Act facilities grant. This facility supports the work of dozens of researchers who use zebrafish as a model system for genetics, development, host-microbe interactions, and neurobiology. Zebrafish research was founded at the University of Oregon in the early 1980s by George Streisinger and has since spread to include thousands of researchers drawn from institutions around the world.

Center for Advanced Materials Characterization in Oregon

Kurt Langworthy, Director
541-346-3660
camcor.uoregon.edu

The Center for Advanced Materials Characterization in Oregon is a user facility housing a comprehensive array of materials characterization instrumentation and expertise to serve the needs of researchers on the University of Oregon campus, regional industries, and academic institutions. The facilities provide infrastructure for research in chemistry, nanoscience, engineering, physics, materials science, geology, bioscience, and optics.

Genomics and Cell Characterization Core Facility

Doug Turnbull, Director
541-346-5170
gc3f.uoregon.edu

The Genomics and Cell Characterization Core Facility supports scientific research at the University of Oregon by offering genetic and genomic technologies. The facility provides in-house services and specialized equipment, including Sanger DNA sequencing, microarray-based genotyping, microarray printing, robotics for high-throughput manipulation of DNA samples, and next-generation, Illumina-based, high-throughput DNA sequencing and associated bioinformatics. In the near future, the facility will offer cell-sorting services.

Greenhouse Facility

Susan Belcher, Interim Manager
541-346-2546
uogreenhousefacility.uoregon.edu

The University of Oregon Greenhouse Facility comprises more than 6,000 square feet of greenhouse space and a one-acre field to support research and teaching activities. The facility consists of a small greenhouse on the fourth floor of Onyx Bridge, two large greenhouses near Campus Operations, and the Quonset, with an incubator, growth chambers, drying ovens, potting bench, and more. The facility supports the research and teaching missions of the faculty and students in multiple academic departments and institutes across the university, as well as many universities throughout the country. The facility is staffed by a part-time greenhouse manager and by student workers.

Histology and Genetic Modifications Core Facility

Ute Hostick, Manager
541-346-4935
hgem.uoregon.edu

The facility provides all the services necessary to produce and maintain genetically modified mice. These services range from designing projects to maintaining colonies. The facility also houses histology services.

Research Advanced Computing Services

Nick Maggio, Director
541-346-6990
hpcf.uoregon.edu

Research Advanced Computing Services (formerly the High-Performance Computing Research Core Facility) supports research computing at the University of Oregon by providing large-scale computing resources, performance storage, high-speed data transfer capabilities, and support for data sharing. In addition, it provides consulting services in the computational sciences, training on the use of resources, and supports grant proposals through formal partnerships or by providing letters of support.

Robert and Beverly Lewis Center for Neuroimaging

Fred Sabb, Director
541-346-0337
lcni.uoregon.edu

The Lewis Center for Neuroimaging, a component of the Brain, Biology, and Machine Initiative at the University of Oregon, supports interdisciplinary, multifaceted research in cognitive neuroscience and biological imaging. The center has a Siemens Magnatom Skyra 3T magnetic resonance imaging (MRI) unit and full capabilities for the design and fabrication of magnetic resonance coils to support a broad range of research needs and applications.

Technical Science Administration

John Boosinger, Director
541-346-4683
tsa.uoregon.edu

The Technical Science Administration is a collection of professional machinists and electrical engineers who help support internal and external research projects and equipment. The shops prototype sophisticated instrumentation for novel research projects, engineer creative solutions and products, and repair, upgrade, or retrofit existing scientific instrumentation.

Terrestrial Animal Care Services

Monte Matthews, Director
541-346-4957
teacs.uoregon.edu

Terrestrial Animal Care Services is responsible for administering all activities related to the care and use of animals. Its functions include procurement of all live vertebrates for research and teaching, supervision of animal technicians, control of animal holding facilities, and provision of veterinary care. Terrestrial Animal Care Services also has the responsibility for developing and implementing a plan for obtaining accreditation from the Association for Assessment and Accreditation of Laboratory Animal Care International for the University of Oregon's animal care and use program.