# 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

**Timothy Mason, Manager**
541-346-8980
aqacs.uoregon.edu (http://aqacs.uoregon.edu)

Aquatic Animal Care Services provides support for researchers using aquatic and semi-aquatic animal models, primarily fish, to study vertebrate genomics and vertebrate development. The most widely used fish model at the University of Oregon is the zebrafish (*Danio rerio*). Zebrafish research was founded at the University of Oregon in the early 1980's by George Streisinger and has since spread to include thousands of researchers drawn from institutions from around the world.

## Center for Advanced Materials Characterization in Oregon

**Kurt Langworthy, Director**
541-346-3660
camcor.uoregon.edu (http://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 (https://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 (http://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 (http://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 (https://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 (http://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 (http://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 (https://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.