Centers and Institutes

The Office of Research provides support and oversight for a number of multidisciplinary research centers and institutes across The Ohio State University campus. These centers fall into two categories: academic and core facilities.

### Academic Centers

**Byrd Polar and Climate Research Center**

[bp_crc.osu.edu](bp_crc.osu.edu)

The Byrd Polar and Climate Research Center (BPCRC), named in honor of Admiral Richard E. Byrd, America’s most famous polar explorer, is recognized internationally as a leader in polar, alpine and climate research. Research at the BPCRC focuses on the role of cold regions in the Earth’s overall climate system. It encompasses geological sciences, geochemistry, glaciology, paleoclimatology, meteorology, remote sensing, ocean dynamics and the history of polar exploration. In addition, BPCRC maintains the Byrd Postdoctoral Fellowship Program, provides research opportunities and support for a number of graduate and undergraduate students, offers frequent seminars and lectures and maintains a public education outreach program.

**Center for Emergent Materials**

[cem.osu.edu](cem.osu.edu)

The Center for Emergent Materials (CEM) is part of a network of Materials Research Science and Engineering Centers (MRSECs) funded by the National Science Foundation. The center engages teams of researchers from multiple disciplines to work on scientific problems too complex for a single researcher to solve. The CEM performs integrated research on emergent materials and phenomena in magneto electronics to create new paradigms in computing and information storage. Collaborators include universities, government laboratories and industry, both in the U.S. and abroad. In addition, the CEM strives to develop scientists and engineers well-prepared to contribute to and lead research, development and commercialization in materials-related fields.

**Center for Lake Erie Area Research**

[ohioseagrant.osu.edu](ohioseagrant.osu.edu)

The Center for Lake Erie Area Research (CLEAR), home of the Ohio Sea Grant, studies issues related to water quality, fisheries and sustainable development along the Lake Erie coastline. The center is housed at Stone Laboratory on Lake Erie’s Gibraltar Island. Stone Laboratory is the oldest freshwater biological field station in the U.S. and the center of Ohio State’s teaching and research on Lake Erie. Stone Lab offers lab facilities, field work equipment, research vessels and housing for researchers studying Lake Erie. Together, the Ohio Sea Grant and Stone Lab provide the science behind informed policy and management decisions on science education, the Lake Erie ecosystem and its economic impact on the region.

**Center for RNA Biology**

[rna.osu.edu](rna.osu.edu)

RNA research is an interdisciplinary endeavor that spans biology, medicine, agriculture, mathematics, physics and chemistry. Ohio State’s Center for RNA Biology houses the single largest group of RNA experts in the country—more than 200 faculty, staff, students and postdocs. The center’s mission is to advance life sciences research and education at the university by building on existing strengths in RNA biology, developing synergies through interdisciplinary initiatives and outreach, recruiting and retaining outstanding faculty and attracting the best graduate and postdoctoral researchers.
Infectious Diseases Institute
idi.osu.edu
Ohio State is at the forefront of innovative, research-based ways to control the spread and severity of infectious disease. The Infectious Diseases Institute (IDI) brings together a dynamic community that fosters a collaborative approach to generating solutions to the detrimental effects of microbes on the health of humans, animals, plants and the environment. Interdisciplinary teams are working in six thematic areas: antimicrobial resistance; ecology, epidemiology and population health; host defense and microbial biology; microbial communities; prevention, detection and therapies; and viruses and emerging pathogens. IDI also provides seed funding, supports team science proposals, promotes internal and external partnerships and offers educational and outreach programs.

Institute for Materials Research
imr.osu.edu
The Institute for Materials Research (IMR) is the gateway to Ohio State’s materials-allied research enterprise. The IMR supports a community of multidisciplinary materials researchers, capabilities, focus groups and centers that eliminate traditional discipline-driven boundaries at the research level. IMR provides seed funding, infrastructure support and development, management of major research facilities, faculty recruitment, promotion of industry partnerships, educational and outreach programs and strategic leadership. Signature research areas include photovoltaics, magnetoelectronics, biomaterials and biosensors, computational materials and polymers.

Translational Data Analytics Institute
tdai.osu.edu
The Translational Data Analytics Institute (TDAI) is advancing Ohio toward becoming a global hub for the development, application and study of translational data analytics solutions. TDAI is enabling collaboration and innovation in translational data analytics, co-developing externally responsive translational data analytics solutions with industry and community partners and expanding the workforce capable of delivering translational data analytics solutions. TDAI is advancing the educational programming and student engagement in data science and analytics and is contributing nationally and internationally to the maturation of translational data analytics as a field.

Core Facilities

Campus Chemical Instrument Center
ccic.ohio-state.edu
The Campus Chemical Instrument Center (CCIC) provides state-of-the-art research facilities to the Ohio State research community in the areas of nuclear magnetic resonance, mass spectrometry and proteomics. It serves as a statewide hub for researchers at all Ohio universities, offering outstanding data collection and processing capabilities.

Campus Microscopy and Imaging Facility
cmif.osu.edu
The Campus Microscopy and Imaging Facility (CMIF) provides microscopy advice, education and instrument training for the research community. The CMIF staff is committed to providing researchers with publication quality, high-resolution images for use in manuscripts and grant applications.

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