ACCELERATE YOUR RESEARCH

Get funded and manage your project with our resources.

Dear Researchers,

We are grateful that you are part of the University of Missouri's thriving community of faculty, staff and students involved in research, scholarly and creative endeavors. Your work is pushing the boundaries of what's possible and exploring frontiers that will benefit Missouri and the world.

At the Division of Research, Innovation and Impact, our mission is to empower you to increase the quality and quantity of proposal submissions and to expand collaborative, interdisciplinary research across campus.

Do you have a vision for your research but aren't sure where to begin? Need guidance on navigating federal agencies like the National Institutes of Health or the National Science Foundation to get your project funded? Wondering what compliance training is required before working with patients?

We know you are the expert in your field, and your ideas drive progress. But we also understand that securing funding, meeting regulatory requirements and managing the complexities of grant proposals can be challenging.

Within these pages, you'll find an overview of the resources, services and training we offer to help you develop your research skills, find funding opportunities and bring your ideas to life. Our goal is to support you so you can focus on what you do best — finding answers to society's most pressing problems.

Thank you for your dedication, hard work and passion. We're proud to support you.

Thomas E. Spencer
Vice Chancellor for Research

TABLE OF CONTENTS

THE CONNECTOR AND BROADER IMPACTS

The National Science Foundation (NSF) and other federal agencies now require researchers to justify not only the intellectual merit of their proposed research, but also its "broader impacts." The NSF defines broader impacts as the potential to benefit society and contribute to the achievement of specific, desired societal outcomes.

The Connector will help you develop a strong research impact plan based on your individual interests and resources.

SERVICES

Development of broader impacts and engagement plans
Researchers can receive one-on-one consultations to develop engagement activities for their proposals. We will work with you to identify a goal that highlights your strengths and meets the requirements of your funding agency. We can help you identify partnerships through our network with campus and community resources to build a strong team to implement your plan.

Program development
Researchers can meet with Connector experts for support in the development, implementation and evaluation of new engagement programming.

Engagement programming
The Connector supports programming opportunities to engage with the local community and the state of Missouri. Examples:

- Extra Credit is a monthly pop culture movie series at Ragtag Cinema that includes a panel discussion with Mizzou researchers and an audience Q&A.
- The Columbia Young Scientists Expo is a free annual hands-on science event for K-12 students held on Mizzou's campus each spring.

Learn more about The Connector:

theconnector.missouri.edu　|　theconnector@missouri.edu

PROFESSIONAL DEVELOPMENT

The Division of Research provides growth opportunities focused on increasing your confidence, skills and productivity throughout the life cycle of a research or creative works project. Our professional development team works hand-in-hand with staff at The Connector.

Programs
Sustained support and training programs include the NSF CAREER Club, Principal Investigator Leadership Program, the Early Career Researcher Workshop Series and the new Charting Research Pathways Program.

Workshops
One-to-two-hour webinars and in-person workshops focus on research development topics. Request custom research workshops by email or through our website.

Team science
Collaborative events are designed to help teams of researchers build new connections, identify new lines of inquiry and ideate around funding opportunities.
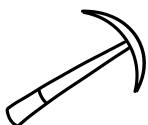
Researcher consultations
Meet with us to discuss your research development needs, including research planning, team and project management, finding research funding, proposal feedback, grant writing support, identifying potential partners and more.

Self-paced learning
Hone your research skills by reviewing archives of recorded workshops, fact sheets and other handouts on our website.

research.missouri.edu/professional-development

muresearchprodev@missouri.edu

CORES AND CENTERS

Mizzou's advanced technology core facilities centralize shared resources to provide access to instruments, equipment, technologies and expertise that go beyond what individual labs and campus units can offer. Core services, which range from electron microscopy to genomics, are an integral part of our research enterprise. Each facility houses instrumentation and experts to help researchers from across the University of Missouri System, as well as industry partners, attain their scientific goals.

Our research centers unite investigators from different disciplines to tackle shared goals. Their collaborative environments spur innovation and unique approaches to scientific discovery.
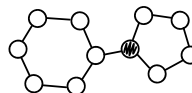
Advanced Technology Core Facilities

Advanced Light Microscopy

Animal Modeling

Bioinformatics and Analytics

Cognitive Neuroscience Systems

Electron Microscopy

Flow Cytometry

Gehrke Proteomics Center

Genomics Technology

Laboratory for
Infectious Disease Research

Metabolomics Center

Molecular Interactions

PET Imaging Center

Small Animal Phenotyping

Research Centers and Resources

Christopher S. Bond
Life Sciences Center

Dalton Cardiovascular
Research Center

Interdisciplinary Plant Group

Materials Science and
Engineering Institute

Metagenomics Center

Missouri Center for Addiction
Research and Engagement
(MO-CARE)

Missouri Prevention
Science Institute

Molecular Imaging and
Theranostics Center

MU Research Data Center

MU Research Reactor

Mutant Mouse Resource and
Research Center

National Swine Resource and
Research Center

NextGen Center for Influenza
and Emerging Infectious
Diseases

NextGen Precision Health
initiative and Roy Blunt NextGen
Precision Health building

Rat Resource and
Research Center

Thompson Center for Autism
and Neurodevelopment

research.missouri.edu/cores-centers

RESEARCH ANALYTICS

The Research Analytics team provides research and sponsored projects reporting, analyses and strategic decision support for the Mizzou community. Our work products include:

- Self-service and on-demand reporting that is accurate, insightful and timely.
- Strategic decision support analyses for trends, goal setting, national benchmarking and targeted initiatives.

We can help you:

- Leverage research data to find collaborators and gain actionable insights about funding opportunities.
- Identify strengths and opportunities through competitive intelligence.
- Develop data visualizations and metrics for your presentations, papers and more.

research.missouri.edu/research-analytics

researchanalytics@missouri.edu

RESEARCH SECURITY AND COMPLIANCE

Research security
The U.S. government requires the safeguarding of federally funded research from misappropriation and undue foreign influence. We facilitate the implementation of federal requirements for research security programs.

Export controls
Export controls are federal laws restricting the transfer of goods and technology to persons and entities outside the U.S. These laws and regulations apply when there are:

- Potential military applications.
- Concerns about the destination country or user.
- National security concerns about the export's use.

When export controls apply, they apply to all activities, including but not limited to, sponsored research. We work collaboratively with University of Missouri System offices and outside agencies to ensure the university complies with export control laws and regulations.

Sanctions
The U.S. Department of the Treasury administers sanctions to achieve national security and foreign policy objectives. Before engaging with foreign parties, please contact the Research Security and Compliance team. They will determine if the party is subject to sanctions and ensure Mizzou has any necessary government approvals.

Controlled Unclassified Information (CUI)
The UM System offers Microsoft GCC High, called Arculus, to meet the safeguarding requirements for CUI. Faculty must work closely with Research Security and Compliance and research information security professionals to ensure CUI is appropriately protected.

research.missouri.edu/research-security-and-compliance

exportcontrols@missouri.edu

STATEGIC PROPOSAL DEVELOPMENT SERIVCE

The Strategic Proposal Development Service (SPDS) team supports large, complex grant proposals valued at $750,000 or more in total costs per year as well as proposals deemed particularly competitive or aligned with Mizzou's strategic priorities. SPDS services are coordinated with academic units and departments and are intended to be supplementary and complementary.

Budgets, biosketches and management plans
SPDS team members support creation of these documents and work with the principal investigator (PI), writers and unit staff to ensure compliance and accuracy. SPDS grants and contracts specialists coordinate submission with the Sponsored Programs Administration.

Graphic design and illustration
A proposal illustrator creates and refines graphics for proposals. Logos, figures, charts, timelines and illustrations are produced that clearly and concisely support the proposal narrative or focal activities of a project.

Narrative advising
Proposal development leads work with the PI and writing team to develop a clear and compelling narrative. They advise on alignment with priorities and fulfillment of requirements listed in the solicitation. They also provide templates for ancillary documents as needed. Their work ensures the production of compliant and competitive proposal narratives.

Proposal management
Experienced proposal managers will assist with proposal intake, deadline development, milestone identification, communication management with the faculty writing team, meeting facilitation and more.

Referrals to other services
SPDS can refer PIs to other Mizzou staff for support for Broader Impacts and Research Analytics. They also offer information for PIs to use to identify and select an external evaluator, when appropriate.

research.missouri.edu/strategic-proposal-development-service

spds@missouri.edu

SPONSORED PROGRAMS ADMINISTRATION

Sponsored Programs Administration (SPA) oversees grants and contracts awarded to the Curators of the University of Missouri (known as sponsored projects).

Sponsored projects are funded by entities outside the university for a specific purpose, such as research, scholarly or instructional activities, travel or conference attendance, training or public service.

They include a description of the scope of work for a defined period of time; a budget; and a designated principal investigator, program director or other project leader.

The funding can be delivered through an award, grant, contract, cooperative agreement, memorandum of understanding, purchase order or other agreement that restricts or places terms and/or conditions upon the use of the funding or property.

SERVICES

- Advice and assistance with budget preparation and other administrative requirements of proposals.
- Review, negotiation and acceptance of awards.
- Information regarding policies and regulations.
- Issuance and administration of subcontracts and other subawards.
- Sponsor communications.
- Award management, reporting and closeout.

research.missouri.edu/sponsored-programs-administration

grantsdc@missouri.edu

HUMAN SUBJECTS

When conducting studies using human research participants, researchers must adhere to the policies and procedures of the Institutional Review Board (IRB). Start with IRB submission and review process steps on our website.

If you are transferring a grant or project, contact the MU IRB office *early* to ensure a smooth transition of research activities and training. If IRB oversight will stay at your previous institution and you continue to be engaged in the research, submit an Initial Reliance Request Form in eCompliance. Our website provides guidance on this and many other topics, including student research and study participant outreach.

research.missouri.edu/human-subjects-research
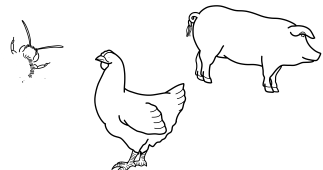
muresearchirb@missouri.edu

ANIMAL RESEARCH

Animal research at Mizzou is overseen by three distinct groups: the Office of Animal Resources (OAR), the Animal Care and Use Committee (ACUC) and the Animal Care and Quality Assurance office (ACQA). Each has a specific role to ensure Mizzou's animal research is conducted safely and humanely.

The OAR provides veterinary care for university-owned animals and maintains all campus facilities. The ACUC ensures that MU follows all laws and regulations regarding animal research. The ACQA provides support for the ACUC and also ensures that animal researchers and their personnel are properly trained to perform animal research.

research.missouri.edu/animal-research

acuc@missouri.edu

TECHNOLOGY ADVANCEMENT AND INDUSTRY PARTNERSHIPS

Technology Advancement partners with Mizzou researchers, industry, entrepreneurs and investors to turn university innovations into commercial products and services. We help investigators leverage the impact of their work by:

- Evaluating inventions for novelty, utility and market potential.
- Securing intellectual property protection, such as patents and copyrights.
- Identifying potential commercial partners and mentors.
- Negotiating and managing licenses and other agreements.
- Managing invention reporting and compliance requirements from federal, state and industry sponsors.

Researchers who think they have an innovation should submit a confidential Invention Disclosure Form. Make sure to contact us *early* for feedback and *before* you share your work publicly.

research.missouri.edu/technology-advancement-overview
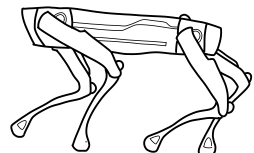
techadvancement@missouri.edu

Mizzou investigators pursuing translational research funding or strategies to bring their innovations to market have access to several campus-based accelerators.

research.missouri.edu/mizzou-lab-2-market

The Division of Research also works with industry partners that sponsor research, license Mizzou innovations, use the advanced technology cores, conduct clinical trials and more.

research.missouri.edu/industry-partnerships

FAQs

What is eCompliance?
You'll find research-related training modules and required forms on this web portal. Log in with your Mizzou credentials at ecompliance.missouri.edu.

Where do I go for questions related to myVITA and Academic Analytics?
The Provost's office manages these tools for faculty. Visit provost.missouri.edu.

Where can I find guidance on the shifting federal research funding landscape?
Information and updates are posted on research.missouri.edu/federal-updates.

How do I get Institutional Review Board (IRB) approval for my research with human subjects?
Submit your application within the IRB module in eCompliance. Exempt and expedited studies have no deadline. The deadline to submit full board applications, amendments and annual updates is the 25th of each month.

Where can I find information on sponsored projects and funding?
The Research Analytics team offers self-service, monthly reports in Power BI or Excel formats as well as customized reports and competitive intelligence analyses.

Why do grant proposals go through the Sponsored Programs Administration (SPA) before submission to the sponsor?
SPA has delegated authority to sign agreements on behalf of the university. Faculty and staff investigators cannot sign contracts binding Mizzou to obligations outlined in their proposals.

How do I transfer my grant?
The process of transferring awards from one institution to another requires negotiation with the sponsoring agency, the researcher's previous institution and Mizzou. Contact the grants office in your college or school for more information.

Does the Strategic Proposal Development Service (SPDS) create reference lists and similar supportive documents for grant proposals?
SPDS team members are not permitted to create or edit reference lists and do not write novel content for supporting documents. We can provide templates for ancillary documents upon request.

What happens after I disclose my invention?
Technology Advancement professionals will discuss the invention with you and evaluate it for novelty, utility, patentability and market potential.

What are export controls and sanctions?
They are federal regulations established to protect U.S. national security, advance U.S. economic interests and achieve U.S. foreign policy objectives. The Research Security and Compliance team can help you navigate them and other research security requirements.

WE CAN TELL YOUR STORY

It's important to tell the Mizzou community (and beyond) about how your research and creative activity improve the quality of life, expand our understanding of the world, foster innovation and prepare a highly educated workforce.

The communications team within the Division of Research will connect you to the larger campus channels that can produce content with you to increase the visibility of your work through media coverage and other opportunities. Our team also creates a monthly Division of Research newsletter and is happy to share your successes, so please let us know if you have ideas for content.

muresearch@missouri.edu

OLD MISSOURI

Old Missouri: Fair Missouri! Dear Old Varsity!
Ours Are Hearts That Fondly Love Thee; Here's A Health To Thee!

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Follow Mizzou Research on LinkedIn for news, events and opportunities.

mizzou.us/MizzouResearchLinkedIn

Research, Innovation & Impact
University of Missouri