



Research drives

CHANGE | GROWTH | NEW IDEAS

ACCELERATE YOUR RESEARCH

Get funded and manage your project with our resources.



Research, Innovation & Impact
University of Missouri

Dear Researchers,

We are so glad you're part of the research and creative activity efforts at the University of Missouri. Your endeavors are pushing the boundaries of what's possible and exploring frontiers that will positively impact Missouri and beyond.

Our goal at the Division of Research, Innovation and Impact is to empower and assist the MU community in increasing the quantity and quality of proposal submissions, and grow our collaborative, cross-disciplinary submissions.

Do you have an interdisciplinary vision for your research but aren't sure where to start? Need help learning the ins and outs of federal agencies like the National Institutes of Health and National Science Foundation to get your project funded? Have questions about what compliance training is required before working with animals?

We know you're the expert in your field and have great ideas for projects, but navigating funding entities and regulatory bodies and securing all the moving parts for grant proposals is a lot of work.

Inside these pages, you'll find an overview of our resources, services, opportunities to develop your research skills and more, so you're able to do the work you're passionate about — finding answers to society's most pressing questions.

Thank you for your hard work, dedication and passion for solving these problems.



Thomas E. Spencer
Vice Chancellor for Research



TABLE OF CONTENTS

The Connector and Broader Impacts	4
Human Subjects and Animal Research	5
Cores and Centers	6
Export Controls and Sanctions	8
Professional Development	9
Research Analytics	10
Strategic Proposal Development Service	11
Sponsored Programs Administration	12
Technology Advancement and Industry Partnerships	13
FAQs	14
Communications	15
Contacts	16

THE CONNECTOR AND BROADER IMPACTS

The 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 plan

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.

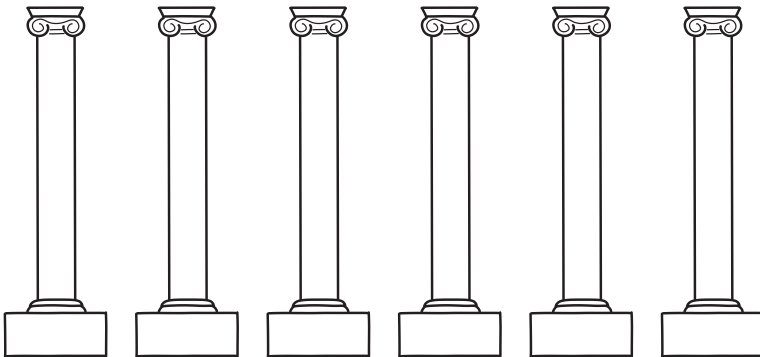
Research development

Researchers can receive one-on-one consultations to develop engagement activities for their proposals.

Engagement programming

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

theconnector.missouri.edu | theconnector@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). The Division of Research has all the resources you need to successfully navigate this process.

From the IRB submission and review process to participant outreach and working with student researchers, the MU IRB office is here to help you.

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

ANIMAL RESEARCH

Just as with humans, there are standard policies and procedures that need to be adhered to when working with animals for research.

Animal research at MU 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 MU's animal research is conducted safely and humanely.

The OAR provides veterinary care for MU-owned animals and maintains all campus facilities. The ACUC ensures that all MU animal facilities are maintained and all personnel are trained properly. The ACQA office 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



CORES AND CENTERS

MU's advanced technology core facilities and research centers are centralized, shared resources that provide access to instruments, equipment, technologies and expertise. Operating on a fee-for-service basis, these continuously expanding services range from animal modeling to X-ray microanalysis and are an integral part of Mizzou's research enterprise. Also in each facility are the experts needed to help researchers from across the University of Missouri System, as well as industry partners, attain their scientific goals.



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
Nuclear Magnetic Resonance
Core
PET Imaging Center
Plant Transformation
Small Animal Phenotyping
X-ray Microanalysis

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
Missouri Prevention Science
Institute
Molecular Imaging and
Theranostics 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
Research Data Center
Swine Somatic Cell Gene Editing
Testing Center

EXPORT CONTROLS

Export controls are federal laws restricting the transfer of goods and technology to, and the performance of services for, persons and entities outside the United States. 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.

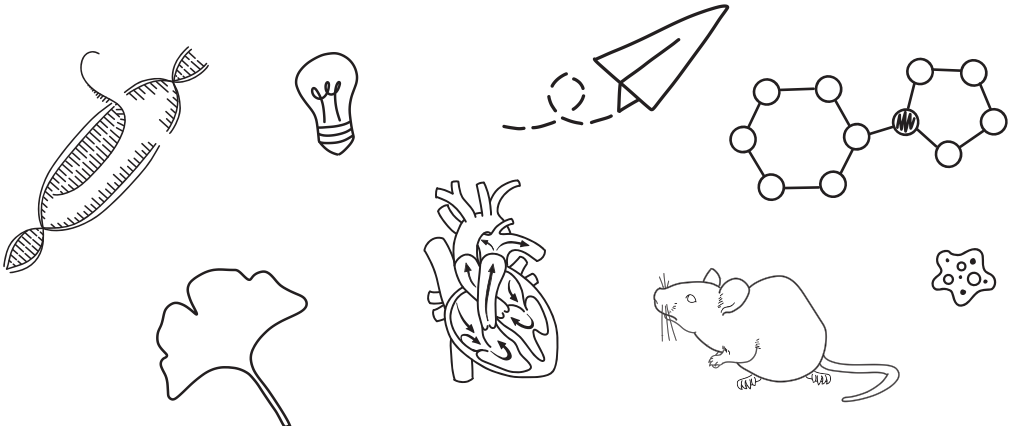
When export controls apply, they apply to all activities, including but not limited to, sponsored research. At MU and across the UM System, we work collaboratively with offices on campus and outside agencies to ensure the university complies with export control laws and regulations.

SANCTIONS

The U.S. government, through the Department of the Treasury's Office of Foreign Assets Control (OFAC), has a variety of sanctions in place to achieve national security and foreign policy objectives.

Please be sure that all interactions with foreign parties are sent to Research Security and Compliance for review so that we can identify whether the party you intend to work with is subject to sanctions and to ensure MU has any required governmental approvals in place for the activity.

research.missouri.edu/export-controls | exportcontrols@missouri.edu



PROFESSIONAL DEVELOPMENT

The Division of Research provides professional development opportunities focused on increasing your confidence, skills and productivity throughout the life cycle of a research or creative works project.

Programs

We offer several programs that provide sustained support and training. Examples include the multiweek Mentoring at Mizzou series or Principal Investigator Leadership programs.

Workshops

One-to-two-hour sessions, offered regularly, focus on specific topics related to research development.

Self-paced learning

Archives of our recorded workshops, handouts and documentation are designed to help hone your research skills.

Team science

Collaborative events are designed to help teams of researchers build new connections, identify new lines of inquiry and ideate around funding opportunities.

Individual meetings

Meet with one of our staff to discuss your research development needs, including finding funding for your research, project supplements, grant writing, identifying potential partners and more.

research.missouri.edu/professional-development
muresearchprodev@missouri.edu



RESEARCH ANALYTICS

The Research Analytics team in the Division of Research provides research and sponsored projects reporting, analyses and strategic decision support for the MU community. Our work products can be categorized into:

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

Research Analytics staff can:

- Use research data to find collaborators and gain actionable insights into funding opportunities.
- Inform you about what other institutions are doing through competitive intelligence.
- Use data to help you find strategic funding sources.

research.missouri.edu/research-analytics
researchanalytics@missouri.edu



STRATEGIC PROPOSAL DEVELOPMENT SERVICE

The Strategic Proposal Development Service (SPDS) team provides proposal support for large, complex and strategically important grants. SPDS services are coordinated with academic units and departments and are intended to be supplementary and complementary.

SERVICES

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.

Narrative advising

Proposal development leads work with proposal managers and unit grant writers to ensure the production of compliant and competitive proposals.

Budgets, biosketches and management plans

SPDS senior grants and contracts specialists create these documents and engage with unit staff, proposal managers and proposal development leads, coordinating submission with the Sponsored Programs Administration.

Editing support

SPDS provides copy editing support for narrative, ancillary documents, internal planning documents, etc.

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.

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
muresearchospa@missouri.edu



TECHNOLOGY ADVANCEMENT AND INDUSTRY PARTNERSHIPS

The Office of Technology Advancement partners with MU 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 with commercial potential should submit a confidential Invention Disclosure Form.

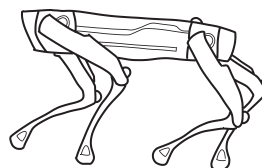
Make sure to contact us **early** for feedback and **before** you share your work publicly.

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



The Division of Research also has staff who work with industry partners interested in sponsoring research, accessing advanced technology and expertise, conducting clinical trials and more. They are available to help researchers navigate requests from industry sponsors.

research.missouri.edu/industry-partnerships



FAQs

How do I get Institutional Review Board (IRB) approval for my research with human subjects?

IRB meetings are the second Wednesday of each month. The deadline to submit human subjects research applications, amendments and annual updates for full board review is the 25th of each month. See page 5.

Do you offer mentoring to help me expand my research skills?

We offer sustained support and training through fellows' programs for faculty in different disciplines and stages of their careers. See page 9.

Where can I find information on sponsored projects and funding?

The Research Analytics team offers monthly reports accessible via Power BI or Excel formats and competitive intelligence for grant applications. See page 10.

Why do grant proposals go through 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 MU to obligations outlined in their proposals. See page 12.

How do I transfer my grant?

The process of transferring awards from one institution to another requires negotiation between the sponsoring agency, the investigator's previous institution and MU. See page 12 for SPA assistance.

Can the Strategic Proposal Development Service help me resubmit my grant application? Is there a charge?

We can analyze reviewer comments and make suggestions for revisions before you resubmit your proposal. We do not charge for our services; our role is to help increase Mizzou's grant proposal activity and success. See page 11.

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. See page 13.

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. See page 8.

What is eCompliance?

You'll find research-related training modules and required forms on this web portal. Log in with your MU 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.

WE CAN TELL YOUR STORY

It's important to tell the Mizzou community (and beyond) about your important research and creative activity. The communications team within the Division of Research will connect you to the larger campus channels that can produce content with you to garner media coverage that could generate more interest in your work and create future opportunities.

The communications team also creates the monthly Division of Research newsletter and is happy to share your successes, so please let us know if you have any ideas for content or research stories.

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