BROADER IMPACTS RESOURCES

University of Missouri-St. Louis Campus Resources
NSF encourages investigators to utilize existing resources to implement Broader Impacts strategy. Below is a list of potential campus outreach and educational partners.

The Bridge Program
The Bridge Program is a widely emulated model of college access that provides comprehensive year-round pre-collegiate programming for St. Louis area high school students and parents. Students complete high school while successfully transitioning to post-secondary institutions with a variety of college access supports and scholarship opportunities.

Program Contact: Natissia Small
Email Address: precollegiate@umsl.edu
Program Link: http://www.umsl.edu/precollegiate/Program%20Opportunities/index.html

The Center for Human Origin and Cultural Diversity
This is an educational program based on anthropological and biological research designed for students of all ages. It is one of the very few comprehensive, experiential learning-based public anthropology programs in the United States. The program operates two learning laboratories: The Human Origin Lab (HOC) and the African Cultures Lab (ACL). For educators, it provides the science base for inclusion and integrative lessons. For students, it provides an opportunity to handle fossil casts and to interact with university faculty, graduate, and undergraduate students.

Program Contact: Jacquelyn Lewis-Harris
Email Address: jalh@umsl.edu
Program Link: http://chocd.umsl.edu/

Center for Nanoscience (CNS)
CNS serves as a cross-disciplinary hub of scientific research at UMSL. The goal is to translate breakthrough scientific studies into practical applications, leading to enhanced industrial collaborations, and economic impact. CNS leverages advances in nanoscale and biological science to create innovative technologies addressing the grand challenges in energy, food, and health. The CNS exploits rapidly advancing nanotechnology and biotechnology to pursue answers to fundamental questions in the life and physical sciences. The convergence of scientific disciplines at the nanoscale provides a stimulating and vibrant interdisciplinary environment for breakthrough discoveries in the 21st century.

CNS chemists, physicists, biochemists, biologists, and materials scientists investigate fundamental nanoscale phenomena and develop novel technologies with a wide range of applications. Current projects range from ultra-sensitive optical detectors to nanostructured materials and from catalysts for alternative energy to antimicrobial drug enhancers.

Program Contact: George Gokel
Email Address: perryk@umsl.edu
Program Link: http://www.umsl.edu/services/ora/cns/

Center for Neurodynamics
The mission of the center is to:
• maintain a commitment to advance knowledge as part of a comprehensive research university, and
• contribute to theoretical and applied research in the fields of its faculty scholars
• provide quality undergraduate and graduate research experiences to students from the urban St. Louis region
• form successful collaborative partnerships regionally within the metropolitan community, as well as internationally, and
• raise the university's national and international profile by publications in major scientific journals and presence at major scientific meetings both within the United States and abroad

Program Contact: Sonya Bahar
Email Address: bahars@umsl.edu
Program Link: http://www.umsl.edu/~neurodyn/

The Center for Teaching and Learning (CTL)
CTL promotes academic engagement and works with faculty to enhance the quality and delivery of undergraduate, graduate, and professional education through:
  - high impact educational experiences (HIEE) that engage students actively in learning (collaborative activities, group and cooperative learning, undergraduate research, problem-based instruction, service-learning, peer academic support) and
  - integration of appropriate instructional technology into traditional, hybrid, and online classrooms to support effective teaching and aid student learning

Program Contact: J. Andy Goodman
Email Address: goodmanjam@umsl.edu
Program Link: http://www.umsl.edu/services/ctl/

Des Lee Collaborative Vision (DLCV)
The DLCV aims to link the knowledge and resources of the university with public organizations to improve quality of life in St. Louis with an emphasis on improving education and opportunities for underserved populations. This is accomplished through the collaboration of more than 30 endowed professors with over 100 partner and community organizations both in the St. Louis region and worldwide. In addition to traditional teaching, research and scholarly obligations, professors in the Collaborative Vision spend at least half of their time engaged in community outreach and development in relation to their fields of study. Below is a link to Current Des Lee Collaborative Vision Endowed Professors:

http://www.umsl.edu/desleecollaborative/endowed-professors.html

Program Contact: Patricia Zahn
Telephone: 314-516-5267
Email: dlcv@umsl.edu

College of Education
The College of Education prepares educators and focuses on becoming an innovation hub by creating strong relationships between practitioners, researchers, and education innovators. The college collaborates with national programs such as Teach for America, The Teaching Channel, New leaders, Foliotek, the Carnegie Project for the Education Doctorate, as well as local school districts, independent
schools, and youth serving organizations. The college has a number of innovative programs outlined below. Please visit the College website for a comprehensive overview.

College of Education Link:  http://coe.umsl.edu/w2/index.cfm

Center for the Research and Study of Disability, Education, and Culture (CRSDEC) (Education)
CRSDEC focuses on clinical experiences that encourage awareness and advocacy, evidence-based practices, best practices, student-centered instruction that supports inclusion, diversity, and contributions of individuals with disabilities.

Program Contact: Patricia Kopetz
Telephone: (314) 516-7224
Program Link: http://crsdec.org/

ED Collabitat (Education)
The ED Collabitat is a habitat for intentional collaborating. Programming derives from the interplay between perspectives informed by the learning sciences, art and design, and education innovators. The aim of the Collabitat is to ignite professional creativity and change practices, cultures, and systems. The role of the ED Collabitat is as follows: 1) Prepare educators to be intentional collaborators and doers, 2) Harness wisdom from the learning sciences + art & design to develop an empirical base for design-based research, 3) Nurture intentional collaborating among students, practitioners, scholars, and innovators within and beyond the university, and 4) Take on local-to-global grand challenges.

Program Contact: Kathleen Fink
Email Address: edcollabitat@umsl.edu
Program Link: http://collabitat.umsl.edu/

UMSL Charter Schools (Education)
UMSL sponsors seven charter local educational agencies (LEAs) consisting of six elementary schools, three middle schools, one high school and one K-8 school, serving students residing in St. Louis, Missouri.

Program Contact: Bill Mendelsohn
Email Address: mendelsohnb@umsl.edu
Program Link: http://coe.umsl.edu/w2/initiatives/Charter/index.html

Innovative Technology Enterprises (ITE)
A university incubator that works closely with corporate and research entities to facilitate technology transfer, startup companies, economic development, and expand research opportunities and partnerships.

Program Link: William Lemon
Email Address: lemonw@ite-stl.org
Program Link: http://www.ite-stl.org/?page_id=2

IS Mentoring
IS Mentoring connects MIS students with industry mentors in the information sciences sector.
The Missouri Institute for Mental Health (MIMH)
MIMH informs knowledge that supports the mental health and wellbeing of persons with behavioral health problems through research, program evaluation, professional training, and community outreach. MIMH research specialties include neuroimaging, integration of CNS biomarkers, and genetics, disease mechanisms, translation of animal studies to human application, and substance abuse. Evaluation research includes design of evaluation protocols, community needs assessments, survey design and analysis, focus groups facilitation and analysis, and epidemiological assessments. MIMH community outreach and training focus on substance abuse, suicide prevention, HIV/AIDS prevention, mental health awareness, innovative use of technology, and culturally relevant interventions.

Program Contact: Robert Paul
Email Address: Info@mimh.edu
Program Link: https://www.mimh.edu/

Multicultural Student Services
Multicultural Students Services facilitates strong partnerships and collaborations across campus and the St. Louis community to promote student learning and development, engagement, persistence and success to aid in closing the achievement gap. Services include career development, academic coaching, personalized academic support, mentoring, tutoring, and scholarship opportunities.

Program Contact: Natissia Small
Email Address: multicultural@umsl.edu
Program Link: http://www.umsl.edu/~mcraa/

Opportunity Scholars
The program focuses on academically gifted first-generation college students and/or students who are underrepresented in the work force from certain academic fields – primarily, but not limited to, the sciences, technology, engineering, and math. Selected participants receive an all-inclusive, four-year scholarship to UMSL and opportunities to develop career experience.

Program Link: http://www.umsl.edu/opportunityscholars/

Schwartz Observatory
The observatory is used for astronomical research and public education. The observatory has an active public outreach program including two annual open houses for students and the general public.

Program Contact: Erika Gibb
Email Address: gibbe@umsl.edu
Program Link: http://www.umsl.edu/~physics/About%20the%20Department/astro.html

Summer Research Internship Program for Economically Disadvantaged High School Students (SEED) American Chemical Society
Project SEED was established by the ACS in 1968 to help economically disadvantaged students expand their education and career outlook, giving them the chance to spend a summer conducting hands-on
research with a scientist in academic, industry or government research laboratory and explore a career in science. Participants work alongside a chemist who also serves as a mentor providing guidance, encouragement and recommendation letters for college. UMSL is one of two locations with Project SEED programs in Missouri.

UMSL Contact: Keith Stine
Email Address: kstine@umsl.edu
Program Link: http://www.acs.org/content/acs/en/education/students/highschool/seed.html

Science Education Programs
This site provides links to a number of student and teacher information programs and resources.

Program Link: http://www.umsl.edu/~sep/

Sister Scholars Program
Sister Scholars is a support group that offers women of color an opportunity to connect with other women to explore academic, personal, and career goals in a safe and affirming setting.

Program Link: http://www.umsl.edu/~sisterscholars/

St. Louis Public Radio 90.7 KWMU
St. Louis Public Radio is an award-winning program of the University of St. Louis. KWMU is a great resource for integrating dissemination of research findings and outreach as part of broader impacts strategy.

Email Address: manderson@stlpublicradio.org
Program Link: http://news.stlpublicradio.org/

Students and Teachers as Research Scientists (STARS)
Students and Teachers as Research Scientists (STARS) is a program funded partially through various private industries and universities in St. Louis. It introduces both high school students and teachers to the various aspects of the scientific enterprise as practiced by successful scientists in academic, private, and governmental research institutions.

High potential, secondary school students and science teachers have the opportunity to participate in a variety of research projects including but not limited to: anthropology, astronomy, biology, chemistry, computer science, earth science, engineering, mathematics, physics, or psychology at one of the collaborating research institutions: Saint Louis University, Washington University in St. Louis, University of Missouri-St. Louis, Donald Danforth Plant Science Center, or Confluence Life Sciences. During this six-week summer program, students and teachers do research within a community of investigators under the supervision of a practicing research mentor. Through student-mentor partnerships, student participants apply various problem-solving strategies to independent research projects, write a 15-20 page technical report, and orally present their results in a seminar format.

Program Contact: Kenneth R. Mares
Email Address: maresk@umsl.edu
Program Link: http://www.umsl.edu/~sep/STARS/index.html
SUCCEED
SUCCEED is a postsecondary program for people with intellectual and developmental disabilities ages 18-25. The program offers an individualized approach to career development and transition toward degree-seeking programs.

Program Contact: Deborah Baldini
Email Address: baldinid@umsl.edu
Program Link: http://www.umsl.edu/~pcs/succeed/

The Sue Shear Institute for Women in Public Life
The Sue Shear Institute focuses on encouraging women’s full participation in the political process. The center educates and coaches women seeking judicial appointments and employment in government policy-making positions and runs a successful Pipeline to Public Office program that prepares candidates for local office.

Program Contact: Vivian Eveloff
Email Address: veveloff@umsl.edu
Program Link: http://www.umsl.edu/sueshear/

Undergraduate Research
The Office of Undergraduate Research facilitates two core programs and provides faculty resources for supporting undergraduate research including writing and poster support.

Undergraduate Research Day (URDC) at the Capital provides students with opportunities to present research and to let legislators know how their research addresses the needs of society
Undergraduate Research Symposium (URS) provides an opportunity for students to present their research, scholarship, and creative work to faculty, staff, administrators, students, and visitors in either poster or oral formats.

Program Link: http://www.umsl.edu/divisions/artscience/Undergraduate%20Research/index.html

Whitney R. Harris World Ecology Center
The Center promotes research and training in basic ecology and biodiversity conservation across the globe, and increases public awareness and interest in issues relating to global natural resource conservation. The center offers fellowships, scholarships, and training to graduate students. The center is housed within the Department of Biology at the University of Missouri St. Louis, and works closely with The Missouri Botanical Garden and the Saint Louis Zoo.

Program Contact: Robert Marquis
Email Address: Robert_Marquis@umsl.edu
Program Link: http://www.umsl.edu/~biology/hwec/

Resources for Developing Your Broader Impacts plan
Resources for helping you develop your Broader Impacts strategy and narrative:

MU Broader Impacts Planning Guide Sheet (a helpful for tool for planning BI goals and activities)
http://broaderimpacts.missouri.edu/create-bi-plan/
MU Broader Impacts Network (Additional Resources)
http://broaderimpacts.missouri.edu/bin-resources/

COSEE NOW Broader Impacts Wizard
http://coseenow.net/wizard/