

Research Opportunities



Ohio State offers students many opportunities to explore their research interests through educational programming, fellowships, scholarships, grants, research symposia and participation in research presentations nationwide.

OSU students in biomedical research are trained as multidisciplinary professionals in basic and translational sciences, while working closely with leading research scientists in their chosen fields. As members of the OSU family of medical professionals, OSU biomedical science students are on the forefront of medical research breakthroughs and play a vital role in creating the future of medicine.

Educational Programs

A broad range of program opportunities exist for students interested in careers in biomedical research, from early preparation at the undergraduate level to advanced training in a graduate or doctoral program.

The OSU **Medical Scientist Training Program (MSTP)** provides rigorous training in both clinical medicine and basic research, leading to both MD and PhD degrees. Students can take advantage of the program's flexible graduate curriculum, customized to fit their interests and goals, and an independent study pathway for medical school curriculum.

With the theme "the biology of human disease," Ohio State's **Integrated Biomedical Science Graduate Program (IBGP)** offers an integrative, interdisciplinary approach to investigating the causes, biological mechanisms, diagnoses and cures of human diseases. Students gain a broad perspective of the material and start applying their knowledge early in the program as they begin working in laboratories alongside some of Ohio State's most distinguished research scientists.

The College of Medicine **Master in Medical Science Program (MMSP)** offers a flexible research training curriculum for clinical postdoctoral students enrolled in residency training programs at OSU Medical Center. Successful completion of the curriculum and a mentored research project is necessary to earn the non-thesis professional master's degree.

The **School of Allied Medical Professions (SAMP)** at Ohio State offers a number of research training programs for undergraduate, graduate and postdoctoral students. A PhD degree in Health and Rehabilitation Sciences is offered through SAMP.

One of 23 institutions in the nation funded by the Howard Hughes Medical Institute (HHMI), Ohio State's **HHMI Med into Grad** program provides additional research training and clinical exposures for pre-candidacy graduate students in basic sciences, facilitates information sharing between basic scientists and clinicians and prepares trainees for future partnerships and collaborations with physician scientists.

Ohio State's DISCOVERY Post-baccalaureate Research Education Program, known as **DISCOVERY PREP**, provides an intense research experience for recent graduates from underrepresented groups, preparing them for admission and success in a biomedical science doctorate program. Matched with a highly qualified mentor, trainees are provided concentrated professional development to maximize skills and the confidence needed to thrive in a research-intensive biomedical science doctorate program.

The **Biomedical Science (BMS) major** at Ohio State is a highly selective honors major for students who have a strong interest in participating in biomedical research as undergraduates. This career-building program, which emphasizes problem-solving, verbal and written communication skills and

teamwork, prepares students to continue on to a medical degree, a PhD program, a combined MD/PhD program or graduate education in the health sciences.

Ohio State offers a summer enrichment program that gives undergraduates interested in biomedical science an opportunity to participate in research prior to graduate study. The **Summer Undergraduate Course Creating Excellence in Scientific Study**, or **SUCCESS**, seeks to enhance and foster diversity in graduate study in the biomedical and biological sciences as reflected in culture, class, race, ethnicity, background, work and life experiences by encouraging participation from individuals who are underrepresented in medicine.

Medical Student Research Honor Society

The OSU College of Medicine **Landacre Honor Society** promotes excellence in medicine by encouraging academic achievement and success in biomedical research. A variety of informational and educational activities are organized annually to allow medical students to explore research opportunities and to facilitate medical student interaction with faculty researchers at Ohio State. The Society also organizes research fairs and conferences, hosts speakers and inducts new members at the annual Landacre Honor Society banquet.

Funding for Medical Students in Biomedical Research

Trainees in biomedical research at Ohio State enjoy numerous opportunities to learn in laboratories and contribute to studies conducted by some of the nation's most respected research scientists. Many perform research with the aid of scholarships and fellowships designed to support their research interests while they pursue their degrees.

Extramural fellowships are available from institutions such as the Howard Hughes Medical Institute (HHMI), National Institutes of Health (NIH), Alpha Omega Alpha (AOA), Sarnoff Foundation, the Doris Duke Foundation and many other scientific, specialty and disease-specific foundations. Students are encouraged to find a research mentor and apply to multiple funding sources to maximize funding opportunities.

The OSU College of Medicine, through the **Medical Student Research Program**, offers many informational and educational activities about physician research training, careers and funding opportunities. The Medical Student Research Program organizes an annual research scholarship competition. Selected awardees are funded by the generosity of philanthropists who established a number of scholarship opportunities, among them the **Samuel J. Roessler Memorial Medical Scholarship**. For close to 50 years, OSU medical students have had the opportunity to participate in research due to support from the Roessler scholarship. Recipients participate in short- and long-term basic, translational or clinical research opportunities to gain valuable experience under the supervision of an OSU faculty mentor. The College also sponsors the **Barnes & Bennett Memorial Scholarships**, the **Watts Scholarship in Community Research and the Patient-Centered Research Ethics (PCRE) Scholarship**, providing additional funding for OSU medical students.

Other funding opportunities are available annually through centers within OSU Medical Center, including the **Center for Clinical and Translational Science (CCTS) and CCC-Pelotonia**, as well as through national organizations such as the American Heart Association and the American Cancer Society.

More information about research opportunities at Ohio State is available at medicine.osu.edu/researched.