## RESEARCH AND SCHOLARSHIP

**EDUCATING STUDENTS, IMPACTING COMMUNITIES**

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INTRODUCTION

For over 200 years, Ohio University (OHIO) has used innovation and ideas to strengthen the education of its students. Today, OHIO’s research programs and funding—as well as its facilities, institutes, faculty, and students—create a network of innovation and collaboration that capitalizes on discoveries. The result is a university that not only cultivates knowledge, but also channels it into local, national, and global results.

The pages that follow detail Ohio University’s research impact throughout its region, its national scope and collaboration, and its global reach and international partners. At each level, OHIO cultivates undergraduate, graduate, and faculty researchers and equips them with world-class resources that attract funding, partnerships, and international attention to southeast Ohio. These three levels of impact demonstrate Ohio University’s commitment to a system of research that promotes intellectual curiosity and leaves OHIO’s mark—and its positive impact—both at home and across the globe.

RESEARCH EFFORTS

The Life Science Research Facility houses faculty and graduate student offices, as well as research labs for the departments of Biological Sciences and Biomedical Sciences.

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RESEARCH / SCHOLARSHIP

$30.5 MILLION
Total external research funding awarded to OHIO in FY12

#1
University in the state for licensing revenue generated from research discoveries ($8.6 million FY11)

$1.9 MILLION
Total research award funds to Ohio University in FY12 from the State of Ohio

#4
University in U.S. for percentage return on investment of research expenditures in FY11 (29.7%)

$4.1 MILLION
Research funding from private industry in FY12

$5.8 MILLION
External research awards to the Avionics Engineering Research Center — the highest amount at OHIO in FY12

$7.5 MILLION
Research grants from the National Science Foundation to OHIO researchers in FY12

*All figures from academic year 2011–12 unless noted
ENGAGING IN WORLD-CLASS RESEARCH

The Carnegie Classification of Institutions of Higher Education lists Ohio University as a Research University (High Activity), marking it as an institution that devotes significant resources to and receives major funding for research annually. OHIO’s top-notch faculty scholars work in world-class facilities and attract millions in research funding every year. University faculty are widely recognized for excellence in research both nationally and internationally, attracting both funding and collaborators.

In fiscal year (FY) 2012, OHIO researchers were awarded more than $30.5 million in funding. Of that, the Russ College of Engineering and Technology received almost $15 million, followed by the College of Arts and Sciences at $8.7 million. Federal agencies and organizations were the largest external contributors, granting more than $21 million to University researchers in 2012. Private industry was the next-highest contributor, adding $4.1 million in funding, followed by nearly $2 million from the state of Ohio. To illustrate the breadth of research funding sources, consider that almost three-quarters of geography faculty are currently conducting research sponsored by agencies including the National Science Foundation (NSF), National Endowment for the Humanities, U.S. Forest Service, National Geographic Society, the Organization for Economic Co-operation and Development, and the U.S. Department of Defense.

Among federal agencies, the NSF contributes the most to research at OHIO, providing nearly $7.5 million in FY12. Among the many OHIO recipients of NSF funding in recent years are Dr. Ben Stuart (civil engineering) to study the viability and optimization of algae-based biofuels; Dr. Nancy Stevens (biomedical sciences) to support a new university laboratory for fossil preparation and imaging; and four NSF graduate research fellowships in 2010 that provided three-year annual stipends and a $40,000 educational allowance.

World-Class Facilities and Programs

The University boasts a number of one-of-a-kind facilities; for example, the McClure School of Information and Telecommunication Systems is the only non-NASA site in the world to host two NASA Advanced Communications Technology Satellite Earth Stations.

The Avionics Engineering Center (AEC), part of the Russ College, is the only facility of its kind in the United States. It was established in 1963 to support a combination of theoreticians and technical specialists who focus on navigation issues encountered in air transportation and to furnish immediate, practical solutions. AEC faculty are international leaders in technologies related to flight navigation, guidance, landing, and GPS applications—elements that have proven critical to the successful deployment and operation of unmanned aerial vehicles in mixed airspaces. The AEC has a faculty and staff of 25 and has had over 50 undergraduate and graduate student interns since 2000.
The Institute for Nuclear and Particle Physics (INPP) in the College of Arts and Sciences is home to the John E. Edwards Accelerator Laboratory, the largest and highest-energy particle accelerator in the state of Ohio. Its combination of continuous and mono-energetic neutrons and a well-shielded 30-meter flight path does not exist anywhere else in North America. The laboratory supports a broad research program in nuclear structure, nuclear astrophysics, condensed matter physics, and applied nuclear physics. It has also been used for external experiments (including research into neutron radiography) led by scientists from Lawrence Livermore National Laboratory. This research contributes to nondestructive surveillance techniques of nuclear warheads to detect voids, cracks, or other defects in plastics, ceramics, lubricants, and explosives surrounded by materials such as lead, tungsten, or uranium. In 2012, the INPP had 28 faculty and staff members who were assisted by 21 graduate students and seven undergraduate students.

Newer University facilities are designed to foster collaboration among diverse disciplines to bring a holistic approach to research. In 2010, the University opened the Academic and Research Center, a $35 million, 100,000 square-foot facility shared by the Russ College and the Heritage College of Osteopathic Medicine (OU-HCOM) to encourage the exchange of ideas.

The facility’s open design fosters collaboration and teamwork among students, faculty, and staff. A central living room provides a place for informal gathering. A two-story project hangar with three glass garage doors, a floor hatch, and an industrial crane shows off civil and mechanical engineering projects. Learning studios with flexible furniture, project team rooms for student organization meetings, and pathways with moveable upholstered furniture replace traditional classrooms, labs, and student lounges.

Unique facilities are not limited to bricks and mortar. The Department of Environmental and Plant Biology administers access to Dysart Woods, a 455-acre site in Belmont County that includes the largest remnant of virgin forest in southeast Ohio. This unique land laboratory is available for both teaching and research; it is also open to the public and contains two popular hiking trails. Only observational studies are permitted in the 55-acre old-growth forest. The remainder of the property—a mix of second-growth forest, old fields, and pasture—is open for experimental work.
Support for Student Research

Ohio University encourages both undergraduate and graduate students to engage in research as well. Faculty often include students on their research teams and list them as co-authors on published papers. The University offers several initiatives to support student research.

The Honors Tutorial College (HTC) is the only degree-granting college in the United States that incorporates all the essential features of the traditional tutorial system used by Oxford and Cambridge universities. By creating a system of undergraduate education that puts a premium on faculty contact, flexibility in requirements, and opportunities to pursue academic programs through research and creative projects, HTC is able to compete for some of the best minds in the country. In 2011-12, 61 new freshmen entered into the HTC, of whom 15 percent came from out of state.

Administered by HTC, the Office of Nationally Competitive Awards helps top OHIO students apply for prestigious funding opportunities to further their research interests. Since 2004, HTC students have received a number of these awards, including four Fulbright Scholarships, which support teaching or research abroad; seven Barry M. Goldwater Scholarships, which support undergraduate scholarship in mathematics, science, engineering; and five National Oceanic and Atmospheric Administration Ernest F. Hollings Undergraduate Scholarships, which recognize undergraduate scholarship related to oceanic and atmospheric science, research technology, and education.

HTC also administers the Provost’s Undergraduate Research Fund, a $50,000 fund that awards research grants to undergraduate students with innovative ideas (see sidebar). In 2011-12, 53 applications out of 115 received were funded.

61 NEW FRESHMEN
Entered into the Honors Tutorial College in 2012, of whom 15 percent came from out of state

PROJECT C, POWERED BY PURF

Among the 2012 winners of funding from the Provost’s Undergraduate Research Fund was Annette Drapac, a senior studying interactive multimedia in the School of Visual Communications. Her project, Project C: Clicking Creates Change, is a multimedia website showcasing nonprofit organizations in Athens through video, illustration, animation, photography, and the written word. The site raises money for the nonprofits it features and has won awards from Adobe and the College Photographer of the Year competition.

“It is both humbling and uplifting having the support of the PURF award. To me, it helps reconfirm the worth of this project for everyone who has seen it, and the value of continuing it in 2012 and beyond.”
— Annette Drapec, OHIO undergraduate and PURF award winner

The Office of the Vice President for Research and Creative Activity funds Student Enhancement Awards to support students’ original research, scholarship and creative work. Awards are administered by the Council for Research, Scholarship and Creative Activity, which is appointed by Faculty Senate. In spring 2013, 21 students received a total of $116,125.

Student researchers showcase their work each spring at the Student Expo, sponsored by the Graduate College and the Office of the Vice President for Research and Creative Activity. The 2013 event drew 675 participants, whose posters and presentations were evaluated by 140 judges. Among the 2,000 visitors to the Expo are 400 to 800 middle and high school students, who also can enter competitions for secondary schools.
THE DIABETES INSTITUTE

For much of the early 2000s, Ohio University had multiple departments involved in diabetes care and prevention work. In 2012, the University consolidated those efforts in the Diabetes Institute. Driven by a pressing local need—the occurrence of diabetes in Southeast Ohio is 50 percent higher than the state overall—the Institute aims to provide resources to reduce the burden of diabetes not only in the region, but nationally and globally as well.

The Institute’s 25 faculty researchers strive to improve the quality of life for those affected by diabetes and related diseases through innovative basic and translational research. They undertake a wealth of inquiry, from studies of regional prevalence and trends of diabetes to diabetes-related food insecurity, racial disparity, and depression. The Community Outreach program transfers that research across the region, serving both patients and providers with progressive clinical care and continuing education opportunities.

CHANGING THE WORLD THROUGH APPLIED RESEARCH

Ohio University is internationally recognized for its advances in a variety of research areas. What makes OHIO special is the effort it puts into taking research discoveries out of the lab and classroom and using them to improve people’s lives in the region, state, and the world.

Health and Wellness

As in many rural areas around the nation, southeast Ohio has a higher-than-average incidence of diabetes. According to the Centers for Disease Control and Prevention, 10.4 percent of the population in Athens County had diabetes in 2009; elsewhere in the region, the rate was as high as 12.5 percent (Lawrence and Morgan counties). The national average in 2009 was 6.3 percent; in Ohio, it was 9.4 percent.

Scholars in the Appalachian Rural Health Institute (ARHI) conduct high-quality research to address diabetes and other rural health issues. From 2005 to 2010, ARHI generated $8.93 million in internal, external, and leveraged funding. As of 2009, ARHI faculty have published an annual average of 70 scientific articles and presented 30 to 40 research presentations at national and international meetings. In 2012, ARHI’s Diabetes Endocrine Center was merged with other University programs to form the Diabetes Institute (see sidebar).

OHIO uses its diabetes research to improve the well-being of the region’s residents. For example, in 2009, the University produced Diabetes: A Family Matter Toolkit to provide practical and applicable information, activities, and media (such as brochures and videos) for those with diabetes and their families, friends, and communities. OHIO trained community health professionals, educators, and volunteers from 12 counties in Appalachian Ohio, Kentucky, and West Virginia to incorporate the toolkit into their own outreach efforts and also to train volunteer community educators who hold events for area residents to promote diabetes prevention and healthy lifestyles.
**Engineering**

The Russ College of Engineering and Technology (Russ College) is at the forefront of applied research in the region and state. One example is the Ohio Research Institute for Transportation and the Environment (ORITE), which takes a multidisciplinary approach to solving environmental and transportation problems. Since the institute’s founding in 1987, ORITE researchers have received more than $5 million in government- and industry-funded projects that are applied in the real world to improve infrastructure performance and save costs for both public and private clients. For example, ORITE researchers found that a material called free-draining base used by the Ohio Department of Transportation in road construction wasn’t improving pavement performance. This saved the state of Ohio an estimated $22 million in pavement construction costs from 2002 to 2007.

The Russ College’s Institute for Corrosion and Multiphase Technology (ICMT) is the largest facility of its kind in the world. Here, OHIO researchers work with a consortium of the world’s 12 leading oil and chemical companies to derive new ways to reduce the corrosion of pipelines that carry crude oil to the refineries—often across hundreds of miles of land and ocean floor—and help prevent catastrophic failure of these pipelines. ICMT draws research requests from Australia to Uzbekistan; companies pay up to hundreds of thousands of dollars every year to be privy to the results of ICMT’s research.

**Education**

Some of OHIO’s most significant regional work leverages education and social science research to advance opportunities for Ohioans and inspire the next generation of inventors and scholars. This research goes beyond traditional classroom and textbook student learning, using hands-on experiences to further understand, and advance research in, real-world situations.

The National Science Foundation recognized this commitment in 2010 when it awarded Ohio University a five-year, $2.6 million grant for The Boat-of-Knowledge in the Science Classroom (BooKS). BooKS pairs Ohio University graduate students in engineering and the sciences with regional high school science teachers to offer them hands-on training in how to conduct and analyze research data. It also gives the students more experience.
communicating science, engineering, and technology knowledge to the public. The project supported nine graduate student fellows who worked with nine partner schools in southern and southeast Ohio, reaching hundreds of high school students.

The Patton College of Education’s Center for Higher Education (C4HE) addresses critical issues in postsecondary education through applied research. Between 2005 and 2010, C4HE received nearly $600,000 in external grants and contracts to conduct research such as the ADVANCE-PAID initiative, which incorporates qualitative and quantitative research to better understand the factors influencing the success and employment outcomes of female STEM faculty in community colleges. The center’s work also includes an ongoing, multi-institutional study of cyberbullying that to date has included a webinar, a published book chapter, and presentations at two national conferences.

**SETTING THE STANDARD IN UNIVERSITY RESEARCH**

Ohio University is an industry leader in two aspects of university research: technology commercialization and multidisciplinary research. OHIO actively engages on both fronts, providing support for faculty who wish to take their discoveries to market and seeking out ways to break down academic silos to provide a holistic view of diverse research challenges.

**Technology Commercialization**

Ohio University has excelled in the commercialization of inventions produced on campus. It is ranked first in Ohio in income from royalties earned from its intellectual property and fourth in the U.S. for return on investment in research—i.e., the ratio of royalty income received for each research dollar spent. Ohio University ranks among prestigious institutions—including Northwestern University, New York University and the University of Michigan—that have monetized a profitable technology licensing agreement in order to reinvest in their institution’s research, scholarship, and creative activities. OHIO’s efforts in technology commercialization not only provide a revenue stream, but also bring important discoveries to the marketplace for the common good.

The most famous example is that of SOMAVER**T** (pegvisomant for injection), a drug used around the world to treat a form of gigantism. In 1987, OHIO researcher Dr. John Kopchick and former graduate student Wen Chen discovered a growth hormone receptor antagonist, which blocks the action of a hormone that causes acromegaly, a disorder related to gigantism. The University licensed the technology to Pfizer Corporation. To date, the patent has generated more than $75 million in royalty income for the University and the drug itself has changed the lives of thousands of patients worldwide.

Dr. Kopchick is a principal investigator with the Edison Biotechnology Institute (EBI). Founded in 1984 to capitalize on OHIO’s production of the first-ever transgenic animal, EBI is one of the nation’s few research entities established in a university setting that includes technology development and commercialization as well as business assistance as part of its
mission. Since 1984, EBI has produced 35 U.S. patents, and currently has 10 U.S. patent applications pending, and 19 active invention disclosures.

In addition to bioengineering, OHIO is a pioneer in commercialization of technologies related to energy and the environment. Dr. Dave Bayless, Loehr Professor of Mechanical Engineering in the Russ College, is a co-founder of ECO2Capture™, a commercial venture that offers a cost-effective solution for the mass transfer of gases into liquid media, particularly to enhance the capture of carbon dioxide (CO2) for algae production. Algae are used for fuel, plastics, nutritional supplements, and dyes. ECO2Capture™ technology can increase the productivity for commercial algae growers by providing inexpensive, just-in-time CO2 to enhance the growth rate of algae and efficiency of existing production processes. According to SBI Energy’s 2010 Algae Biofuels Production Technologies Worldwide Market Research Report, the market for algae production technologies is projected at $1.6 million by 2015. ECO2Capture™ introduced its technology at the

$75 MILLION
Royalty income generated by a growth hormone patent developed by Dr. John Kopchick and former graduate student Wen Chen
Algae Biomass Organization Summit in October 2011 and has secured letters of intent from four different companies to demonstrate it, with additional interested companies in discussion as well.

Another Russ College discovery on its way to the market is a technology to harness commercial and residential waste products such as ammonia and urea and turn them into sustainable sources of energy. Dr. Gerri Botte, Russ Professor of Chemical and Biomolecular Engineering, is turning that technology into products for wastewater treatment and sensors through her company, E3 Clean Technologies. E3’s core product is the GreenBox™, which integrates into wastewater treatment facilities to convert the ammonia and urea in wastewater into hydrogen, nitrogen, and clean water—all held inside a box as small as a mini-fridge. E3 Clean Technologies was one of 30 companies selected out of 300 worldwide to present at Launch: Silicon Valley 2013, where the audience and investors selected the company as the “Most Likely to Succeed” in the Clean Tech category. E3 Clean Technologies was also recognized in June 2013 as one of the 50 “Top Innovators” to present at the 13th annual New York Venture Summit, attended by leading venture capitalists, private investors, and investment bankers.

OHIO is taking steps to back start-ups such as these in a joint venture with Ohio State University. In April 2012, the two universities announced a new jointly backed venture fund—with $15 million from the Ohio University Foundation and $20 million from Ohio State—that will focus on technology companies that emerge from research at the two partner universities, as well as other universities in Ohio.
Multidisciplinary Research

Ohio University is a leader in multidisciplinary research that breaks down academic silos to take a more holistic approach to study. In particular, OHIO researchers across the institution are collaborating to study diseases and disorders that plague millions.

OHIO’s experience in multidisciplinary research began in 1984 with the establishment of EBI. EBI researchers include faculty from OU-HCOM, the College of Health Sciences and Professions, the Russ College, and the College of Arts and Sciences, who harness OHIO’s groundbreaking work with transgenic mice to better understand the molecular and genetic basis of growth disorders, diabetes and obesity, aging, infectious diseases, cancer, and other diseases.

A newer example is the Ohio Musculoskeletal and Neurological Institute (OMNI), which convenes more than 25 scientists from eight departments and schools in OU-HCOM, the Russ College, the College of Health Sciences and Professions, and the College of Arts and Sciences to study musculoskeletal and neurological disorders and diseases—the leading cause of disability in the United States and more than half of all chronic conditions in people over age 50. Each year, musculoskeletal disorders alone cost the United States more than $850 billion in healthcare costs and lost wages, or 7.7 percent of the U.S. gross domestic product—five times the costs associated with diabetes.

In 2013, OMNI’s active grants exceeded $5 million from funders including the National Institutes of Health, Regeneron Pharmaceuticals, the Ohio Aerospace Institute, Abbott Labs, the American Osteopathic Association, MdDS Balance Disorder Foundation, and the Osteopathic Heritage Foundations. In 2011 and 2012, OMNI’s principal investigators published 70 peer-reviewed articles, ranking it third in the nation compared to peer institutes and above OU-HCOM’s osteopathic peers. Among OMNI’s most innovative research is a back pain study funded by a $2.1 million National Institutes of Health grant that incorporates techniques to assess the effects of non-surgical interventions on changes in cortical, spinal, and muscular properties in back pain sufferers (see sidebar).

Additionally, OMNI is currently one of five sites in the nation chosen to participate in a Phase IB clinical trial investigating the efficacy and safety of a new therapeutic compound to reduce muscle wasting in the elderly. This study—funded by Regeneron Pharmaceuticals—partners OMNI not only with industry, but also with other sites, which include Harvard University, Tufts University, the University of Florida, and Washington University in St. Louis.

USING MOTION CAPTURE TECHNOLOGY FOR BACK PAIN MANAGEMENT

In a quest to understand the low back pain that plagues millions of Americans, OMNI principal investigators Dr. James Thomas and Dr. Christopher France turned to the same technology behind Hollywood hit Avatar. In the Motor Control Laboratory at Ohio University, they used motion-capture cameras to track and record the movements of research subjects and better understand the habits of back pain sufferers. They discovered that those who had a previous injury are more susceptible to a phenomenon known as “fear avoidance,” in which individuals afraid of reinjuring their backs move in restricted, unnatural ways that eventually can lead to re-injury—and further back pain. This type of research will help improve conditions for many of the estimated 26 million Americans between the ages of 20 and 64 who experience frequent back pain.
MAKING A GLOBAL AND IMPACT

OHIO’s international research, institutes, and conferences bring scholars and researchers from around the world to OHIO campuses and extend the University’s impact well beyond the nation’s borders.

Disease Treatment and Prevention

OU-HCOM’s Tropical Disease Institute (TDI) fosters multinational, multidisciplinary collaborations among researchers, healthcare professionals, public health leaders, and educators. The knowledge and expertise of TDI-associated faculty is routinely sought out by global organizations such as the World Health Organization, the Pan-American Health Organization, and several multinational consortium-based projects and networks.

TDI is a partner in the Chagas Disease Epidemiological Network, a project funded by the European Union PF7 Program. Over the last twenty years, OHIO faculty have worked to understand and prevent Chagas disease—a tropical parasitic disease that kills at least 10,000 to 12,000 people per year —by implementing blood screening programs and initiating self-sustaining quality control measures. These initiatives were the catalyst for a complete overhaul of the Ecuadorian blood bank system. In 2010, Catholic University of Ecuador and Ohio University used grant funding to expand the Infectious Disease Research Laboratory and training center in Quito.

On the other side of the world, Ohio University Zanesville Campus professor and TDI member Dr. Tarig Higazi studies river blindness in Sudan and East Africa as a consultant to the Carter Center. River blindness is caused by a parasite transmitted by black flies that breed on the banks of fast-flowing rivers and streams. The parasite can live in the body for fifteen to twenty years; in the southern part of Sudan, those afflicted may lose vision by age forty, leading to an adult blindness rate of up to 10 percent. In May 2013, Dr. Higazi and his research team published a study that demonstrated the effectiveness of long-term community-based drug treatment in eradicating the disease in at least one region of the world.

DISEASE TREATMENT AND PREVENTION

Researchers and students work to understand and prevent Chagas disease in Ecuador.

ERADICATING RIVER BLINDNESS

Dr. Tarig Higazi serves as a consultant to the Carter Center to help battle river blindness in Sudan and East Africa.
International Exchange Programs, Conferences, and Collaborations

The wealth of knowledge, discovery, and innovation at OHIO is disseminated internationally through exchange programs, conferences, seminars, and collaborative research. The Center for Ring Theory and Its Applications in the College of Arts and Sciences, for example, includes a membership base well beyond OHIO’s campuses; member-scholars hail from Canada, India, Germany, and Poland. The Ohio University-Ohio State University Ring Theory Seminars have included mathematicians from Iran, Turkey, Vietnam, South Korea, and Spain, among other countries.

The Nanoscale and Quantum Phenomena Institute, also in the College of Arts and Sciences, focuses on condensed matter research at the nanoscale. It attracts participants from the University of Hamburg, the University of Buenos Aires, and the National Atomic Energy Commission in Argentina. OHIO is on the leading edge of the emerging technology of spintronics, which may lead to the next generation of faster, smaller, more efficient computers and high-tech devices. Recently, OHIO’s Dr. Saw-Wai Hla and colleagues from the University of Hamburg made international headlines by becoming the first researchers ever to see and document atomic spin. This research may impact future development of nanoscale magnetic storage, quantum computers, and spintronic devices, potentially increasing computer memory capacity and performance by factors of a thousand or more.

OHIO’s international impact is not limited to the sciences. In 2012, in collaboration with University of Texas at Austin, Texas A&M University, Southern Illinois University, and Temple University, Ohio University’s Scripps College of Communication co-sponsored the Global Fusion conference to promote academic excellence in global media communication. The conference brought partners and presenters from higher education, media, and government to Athens to present and discuss research and international communication initiatives. The event attracted participants from ten nations in Europe, the Middle East, Africa, and Pan-Asia.

Another Scripps program, the Institute for International Journalism, took part in a two-year educational and professional exchange program in Guyana, where media owners developed a professional organization to shape media policy and new communications curriculum at the University of Guyana. OHIO’s international journalism programs are so successful that the U.S. State Department Office of Academic Exchange Programs funds the Study of the U.S. Institute on Journalism and Media at Ohio University, an annual summer institute of 17 international journalism scholars and media experts from universities and academic institutions from around the world.
CONCLUSION

At every level educationally and geopolitically, OHIO’s research efforts create an ecosystem of innovation and discovery that channels academic discoveries into life-changing applications. Across a wide variety of disciplines and throughout the world, research born and developed at Ohio University results in better educated students and a more prepared workforce; in tangible, practical outcomes for southeast Ohio residents; and in national and international knowledge exchange that extends OHIO’s reach well beyond the state’s borders. For the University, a commitment to rigorous and pioneering research means tens of millions of dollars in grant funding annually, global awards and recognition, and the fulfillment of the university’s mission. It is a breadth and depth of impact well beyond measure.

Ohio University is committed to a system of research that promotes intellectual curiosity and leaves OHIO’s mark—and its positive impact—both at home and across the globe.