Research, Innovation and Knowledge - Year in Review

Grace Wang Executive Vice President



Strategic Priorities for the Enterprise



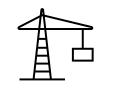
Enable Curiosity-Driven Discoveries and Creative Expression



Build Large-Scale, Interdisciplinary Research and Innovation Centers



Nurture Innovation and Entrepreneurship



Design and Develop Carmenton

Changing the world through impactful research



Inspiring the world through creative inquiry





THE OHIO STATE UNIVERSITY

Strong Focus on Supporting Faculty

43

President's Research Excellence

Projects Awarded To-Date

BHG Collaborations

Building Innovative Interdisciplinary Groups and Collaborations

Engage faculty and cultivate collaborations across disciplines in exploring innovative research questions that can only be examined when diverse talents are brought together

Technology Commercialization Milestones

363

Total Invention Disclosures Filed

Fiscal Year 2022

U.S. Patents Filed

331

Fiscal Year 2022

Contracts Executed

1,743

Fiscal Year 2022



Entrepreneurship Milestones

95 \$1.01 B 11

Operational Ohio State Startups

End of Fiscal Year 2022

Total Private Capital Raised

Since 2010

New Startups Launched

Fiscal Year 2022

Growing Large-Scale, Interdisciplinary Efforts in Strategic Areas





Advanced Computing and Communication



ENTERPRISE FOR RESEARCH, INNOVATION AND KNOWLEDGE

For the second	A geometric de la geometrica de la ge
\$20 million NSF Grant for AI Institute	\$20 million NSF Grant for AI
for Intelligent Cyberinfrastructure	Institute for Future Edge Networks
with Computational Learning in the	and Distributed Intelligence
Environment (ICICLE)	(<u>AI-EDGE</u>)

Smart and Sustainable Systems





Up to \$52 Million from NSF to Enable Hybrid Autonomous Manufacturing



\$26.5 Million Funding from FTA for Bus Testing Facilities

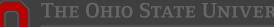


\$18 Million Funding for Watershed Project in Northwest Ohio



\$4.2 Million U.S. DOE Grant to Transform the Way Communities Use Energy

Life Science Frontiers



ENTERPRISE FOR RESEARCH, INNOVATION AND KNOWLEDGE



\$17 Million NIH grant to establish Center for Maternal and Pediatric Drug Research



Gene Therapy Institute

\$14.6 Million NIH award to accelerate gene therapy research for rare disorder



NeuroTech Institute powered by Battelle-Ohio State Partnership

Funded by NASA, Ohio State is lead academic partner to develop low-earth orbit space station and Ag/Bio research pipeline

Building Strategic Partnerships

Ohio State has been chosen as the research home for Starlab's George Washington Carver Science Park Terrestrial Analog Facility.













Building Strategic Partnerships

The AgTech Innovation Hub will enable new solutions that help the agricultural ecosystem while better understanding, managing and mitigating climate risk.









Building Strategic Partnerships

The Center for Advanced Semiconductor Fabrication Research and Education will develop comprehensive experiential learning frameworks for students while advancing the fabrication and development of leadingedge device technologies.





Building Strategic Partnerships Midwest Semiconductor Network

The Ohio State University Case Western Reserve University Kent State University Miami University Michigan State University **Ohio University** Purdue University University of Chicago University of Cincinnati University of Dayton

University of Michigan University of Notre Dame University of Toledo Wright State University Youngstown State University Columbus State Community College Illinois Institute of Technology Ivy Tech Community College Lorain County Community College Sinclair Community College





Carmenton

Historic partnership with the City of Columbus to develop the innovation district

STEAMM Rising partnership with Columbus City School District and Columbus State Community College







ERIK Multi-Year Strategic Plan

Ambition Statement:

Ohio State will achieve transformative impact of its research, innovation and knowledge to advance our society, further serve our community and drive economic prosperity and vitality.



Please click QR Code to learn more.

Enterprise for Research, Innovation and Knowledge: Strategy Map 2023 - 2027



Be the absolute model of a 21st century land grant university

Ohio State will achieve transformative impact of its research, innovation and knowledge to advance our society, further serve our community and drive economic prosperity and vitality

OUTCOMES					
Inspire a culture of research, innovation and knowledge excellence, fueled by a model of diversity, equity, inclusion and accessibility	Be globally renowned for discoveries, knowledge generation and creative expression	Lead development of impactful solutions to critical societal and community challenges through partnerships, innovation and entrepreneurship	Create and sustain dynamic infrastructure and capabilities that drive discoveries	Continuously increase operational excellence to enable shared and individual success	
CORE INTERNAL OBJECTIVES					
Talent, culture, diversity, equity and inclusion	Research and creative expression excellence	Partnerships, commercialization, and societal and economic growth	Digital and physical infrastructure and capabilities	Operational efficiency and accountability	
CT1. Invest in the recruitment, retention and professional development of world- class faculty and staff to support ERIK's growth goals CT2. Develop an organization that is representative of our community, and a culture that is committed to inclusion, equity, diversity and access	CR1. Drive national prominence in current and emerging opportunity areas through building large-scale, interdisciplinary research initiatives CR2. Define, measure and demonstrate research impact	CP1. Build strategic partnerships to realize the impact of Ohio State research and drive economic growth CP2. Build and grow a best-in-class commercialization and entrepreneurship capability	 CI1. Invest in and integrate digital, cyber and physical tools/infrastructure to enhance and accelerate effectiveness, productivity and impact CI2. Support research excellence and effectiveness through robust core and shared resources 	CO1. Advance operational excellence to enable growth, efficiency, risk- management and accountability CO2. Drive accountability and empowerment for decision making and outcomes	

INSTITUTIONAL CAPACITY - COLLABORATION WITH UNIVERSITY PARTNERS TO ENABLE ERIK SUCCESS

IC1. Recruit and retain diverse research faculty and staff in partnerships with Colleges and Centers to realize growth ambition

IC2. Align shared service functions and invest in staff to support growth and excellence in research and creative expression

IC3. Build a vibrant innovation district

IC4. Enhance interoperability of administrative and research platforms



ERIK Multi-Year Strategic Plan

If you have any questions or comments, please contact:

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