



# Ohio Innovation Exchange

Find University Experts, Equipment, or Services

## Executive Summary

Focusing on ways to advance Ohio's innovation economy, leaders from state government, industry and higher education crafted a strategic roadmap exhorting that "enhancing the state's ability to promote and market its collective intellectual property, technology assets and research strengths and activities could play a major facilitating role in connecting Ohio institutions of higher education with potential industry partners/clients and advancing technology transfer and commercialization across the state" [Sixth Report on the Condition of Higher Education in Ohio (2013)]. Taking on a key challenge of this seminal report, the Ohio Department of Higher Education (ODHE) spearheaded the development of the **Ohio Innovation Exchange**, a multi-institutional initiative focused ultimately on growing the state's ecosystem of cross-sector innovations and knowledge translation.

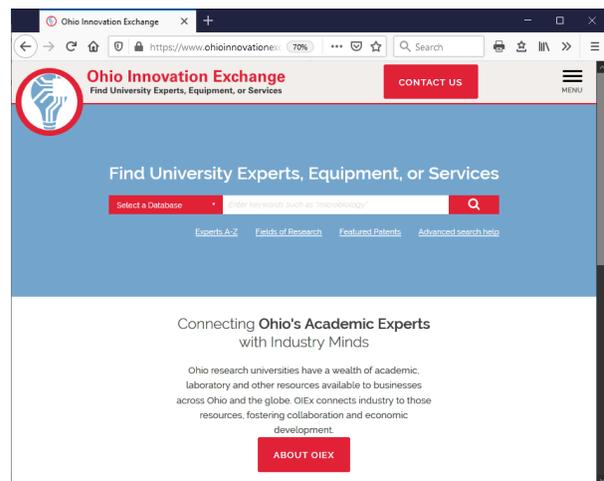
The Ohio Innovation Exchange (OIEx) is a collaborative data-sharing framework and information system sponsored and funded by ODHE. Focused on enhancing the visibility of and access to information about university expertise, OIEx provides a centralized, easily searchable web portal designed to connect academic researchers with businesses and industry. Launched in October 2018, the OIEx portal provides information about more than 11,000 profiled faculty and over 1,000 resources from six of Ohio's universities through a single, open website. Featuring faculty experts, research support services, advanced university equipment and technologies, as well as Ohio's research and innovation news, the Ohio Innovation Exchange is an industry-sought solution that meets a real need for university talent and resources. OIEx enables business, industry, and academic visitors to find, connect and collaborate.

From research partnerships, intellectual property and technology licensing opportunities, to business development and student internships, OIEx has been positioned to foster economic development and intellectual advancement across Ohio and the globe.

THE OHIO INNOVATION EXCHANGE  
Connecting Ohio's Academic Experts with Industry Minds



<https://www.ohioinnovationexchange.org/>



THE OHIO INNOVATION EXCHANGE  
Overview



<https://youtu.be/DeTSvLctpeA>



## FREQUENTLY ASKED QUESTIONS/TALKING POINTS

Resource to Inform Internal University Messaging

### 1. What is the Ohio Innovation Exchange (OIEx) and how does it benefit both industry and academia?

The Ohio Innovation Exchange was launched by the Ohio Department of Higher Education (ODHE) in 2018 to make it easier for businesses and industry groups to access specific expertise and resources from Ohio universities. OIEx provides a powerful, centralized web portal with access to faculty experts, state-of-the-art university equipment and research support services, in the fields of biomedical, natural and physical sciences; engineering; technology; and mathematics. Previously, people searching for these resources would have to comb through multiple university websites and directories, which could be time-consuming and frustrating. While the original driver was access for industry, OIEx is also an important networking resource for faculty looking for potential collaborations with other researchers in Ohio. OIEx provides an efficient way for business, industry and universities to find, connect and collaborate.

### 2. What universities are currently participating in OIEx?

Guided by senior research and technology officials, OIEx is a collaboration of Ohio universities that provides easier access to faculty experts, institutional equipment and research services.

Partner universities include:

- University of Akron
- Case Western Reserve University
- University of Cincinnati
- Cleveland State University
- Ohio University
- The Ohio State University

The goal of ODHE and state officials remains focused on positioning OIEx as a resource for showcasing all Ohio universities.

### 3. What information is accessible through OIEx?

Honoring our universities' commitment to data privacy, OIEx provides access to information already accessible in the public domain related to biomedical, natural and physical sciences; engineering; technology; and mathematics. The OIEx web portal displays three key categories of information, provided centrally by each university's Office of Information Technology (OIT), guided by its Office of Research and approved by university leadership:

#### University Directory Information

Faculty directory information (*i.e.*, name, title, department, college) sourced by OIT available through each university's publicly accessible people directory.

#### Faculty Publications, Grants and Intellectual Property

Representative publications of featured faculty, pulled in dynamically from third-party databases (*e.g.*, PubMed, Web of Science, CiNii, *etc.*) and cross-matched to faculty profiles by OIEx's technologies, serve



as a rich source of data used by the OIEx search engine and a proxy to faculty research interests and disciplines of expertise. Grants data are dynamically sourced from 600+ worldwide public and private funders, while information detailing patents is drawn from the national patent offices of 11 countries (e.g., US, UK, Canada, Australia, Germany, etc.).

### Shareable University Equipment, Technologies and Research Services

Information detailing institutional resources, technologies and intellectual properties (*i.e.*, facilities, equipment and instrumentation) provided by the participating university's Office of Research that are available for industry and research collaborations on a no-cost or fee-for-service basis.

As noted in the following record count table, OIEx provides access to rich data sets from the partner schools.

INSTITUTION	PROFILES	PUBLICATIONS	GRANTS	PATENTS	FEATURED PAT.	EQUIPMENT
University of Akron	70	5,580	253	-	62	302
Case Western Reserve University	3,286	143,344	4,338	5,344	380	63
University of Cincinnati	2,577	69,857	2,147	1,702	122	288
Cleveland State University	275	4,506	204	211	28	-
Ohio Supercomputer Center	15	91	10	-	-	3
Ohio University	563	14,551	556	1,229	119	110
Ohio State University	4,247	224,013	5,183	4,597	247	240
<b>GRAND TOTALS</b>	<b>11,033</b>	<b>461,942</b>	<b>12,691</b>	<b>13,083</b>	<b>958</b>	<b>1,006</b>

#### 4. Are faculty required to participate? What are the expectations?

While faculty are not required to participate, there are numerous benefits associated with involvement in the OIEx initiative. University leadership is committed to the shared inter-institutional vision, goals and strategy realized in the Ohio Innovation Exchange. OIEx promotes university research activities, faculty and resources to a larger industry base, making it easier for businesses to find and partner with the state's leading researchers. By enhancing faculty visibility, OIEx introduces new paths for research funding and creates opportunities for collaboration outside of the traditional university setting.

For faculty who are receptive, responsive and willing to engage industry executives and entrepreneurs looking to develop the next "big idea," having an OIEx profile is ideal. University research collaborators, experts and resources are often difficult to find for those outside of academia. OIEx helps to overcome some of these traditional barriers.

In the event that faculty are not willing to share their information in the system, they may choose to opt-out and can use the embedded "Contact us" form to explain their concerns.

#### 5. Will inquiries be triaged, managed or routed by someone at the participating university? Or are visitors to OIEx able to contact faculty directly?

If they wish, visitors can contact faculty directly through their university email, which is listed in their profile. Campus address and phone numbers are not published in OIEx.

Some visitors to the site may not know whom they should contact for their particular needs or may have questions about the resources that the individual universities offer. In this case, visitors can use an embedded contact form that routes their inquiry to the OIEx Industry Liaison team, a group of industry



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engagement specialists assigned by each OIEx partner university. The team ensures that industry requests are triaged properly and promptly to relevant faculty, research centers and labs.

Once an inquiry is received and triaged through the Industry Liaisons, an email is sent from [Connect@OhioInnovationExchange.org](mailto:Connect@OhioInnovationExchange.org) to the appropriate faculty or staff with details of the inquiry and the offer of assistance. The faculty member, their team and department will work directly with the business or industry group and other university partners to assess interest, scope of work and project details. The OIEx Industry Liaisons will continue to be available to facilitate communication when necessary.

### 6. How can OIEx promote university/industry collaboration on projects?

Connecting industry with faculty and other university resources, OIEx introduces new pathways for collaboration outside of the traditional university setting. OIEx provides an additional channel for faculty members to raise the visibility of their work, promote its relevance and explore new channels of application.

OIEx showcases university and industry collaborations through a series of featured case studies detailing how cross-sector partners worked together to solve a roadblock or problem, leading to a solution, discovery or a new product. Case studies and STEM research stories will also be promoted through multiple marketing channels such as social media, brochures and email campaigns.

### 7. Who sponsors and supports OIEx?

The Ohio Department of Higher Education (ODHE) is the primary sponsor of OIEx, accompanied by strong industry support through the Ohio Manufacturing Institute. ODHE coordinates higher education in Ohio under the direction of its Chancellor, a member of the Governor of Ohio's cabinet. The Chancellor provides policy guidance to the Governor and the Ohio General Assembly and carries out state higher education policy.

Leveraging Ohio's sustained investment in statewide technology infrastructure organizations, the data and technology underpinnings of OIEx are supported by the Ohio Technology Consortium (OH-TECH), an umbrella organization that includes the Ohio Academic Resources Network (OARnet), the Ohio Supercomputer Center (OSC), and the Ohio Library and Information Network (OhioLINK). OH-TECH acts as the OIEx broker for institutional asset data, provides leadership for the project, supports the intake of critical and relevant data from Ohio's institutions and supports the secure user profiles.

### 8. What is the long-term vision for the Ohio Innovation Exchange?

The vision for OIEx is to enhance access to information and strengthen human networking across sectors — universities, business, government and economic development agencies — to seed partnerships for researchers, expand workforce opportunities for students and foster economic development for industry sectors. In May 2020, a collaborative proposal garnered funds from the *Ohio Frontier Research Incentive Fund* to advance the evolving efforts of OIEx.



# Ohio Innovation Exchange

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Proposal Authors	<u>Principal Investigator</u> <b>Timothy J. Cain, PhD</b> <i>Associate Professor; HCOM</i> <i>Associate Scientist; Office of VPR</i> Ohio University	<u>Co-Investigator</u> <b>Jeffrey T. Agnoli, MA</b> <i>Senior Training &amp; Development Specialist</i> <i>Office of Research</i> The Ohio State University	
Proposal Title	<b>Accelerating System Capabilities of the Ohio Innovation Exchange to Advance Discovery, Bolster Commerce, and Catalyze Connections</b>		
Executive Summary	<p>At its core, the Ohio Innovation Exchange (OIEx) is a data-sharing framework and information system that affords greater visibility of and access by industry stakeholders to academic talent and at universities across Ohio. The purpose of the OIEx is to facilitate collaborative research between Ohio’s institutions of higher education and industry partners to promote the State’s industry, commerce and business development.</p> <p>The increasing visibility of OIEx as a statewide resource calls for viable strategies to accelerate developmental enhancements to the portal and its supporting human network of professionals. To promote a broader adoption and richer engagement with OIEx across the spectrum of its users, this proposal details strategies and solutions that will be implemented to: <b>[AIM I] improve the OIEx Web experience</b> by designing and deploying functionality enhancements of the portal; <b>[AIM II] grow participating university awareness, adoption, and support</b> by leveraging our academic libraries; and <b>[AIM III] grow Ohio industry awareness and use</b> of OIEx.</p> <p>The three specific aims detailed herein will greatly enhance the existing system capabilities of OIEx by targeting the following deliverables: I) a richer OIEx Web experience that improves searching and collaboration by users; II) a communications and training materials toolkit for academic libraries that can be customized for adoption and use; and III) an activity-based outreach and customer relationship management plan and a subscription model feasibility study to lay the framework for sustainability of OIEx through a variety “for pay” scenarios.</p> <p>Successful completion of this project will enable OIEx to meet its goals of: (i) accelerating access to needed information and strengthening human networking cross-ties across sectors — universities, business, government and economic development agencies; and (ii) creating catalysts that seed partnerships for researchers, expanding workforce opportunities for students, and fostering economic development for industry sectors. Recognized widely among our peers, the OIEx is clearly building bridges to innovation and commercialization.</p>		
Proposal Date	October 3, 2019	Award Date	May 3, 2020
Awarded Amount	\$396,000	Sponsor	Ohio Dept of Higher Education



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### 9. For more information about the Ohio Innovation Exchange:

Ohio Innovation Exchange Team

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## Industry Liaisons at Partner Universities

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### University of Akron

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**George Chase**

President, UA Research Foundation  
Interim Director of Research Initiatives  
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**Laurel Lohrey**

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### Case Western Reserve University

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**Joe Jankowski**

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### University of Cincinnati

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**Teri Reed**

Assistant Vice President, Faculty Research  
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### Cleveland State University

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**Ben Ward**

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Interim Associate Vice President  
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### Ohio University

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**Bob Silva**

Director of Technology Transfer  
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### The Ohio State University

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Corporate Engagement Office  
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COMING  
AUTUMN 2020

## EXCITING NEW USER EXPERIENCE

Search | Ohio Innovation Exchange X

https://test.oh-tech-discov... 60%

**Institution**

All selected 107

- Case Western Reserve University 107
- University of Cincinnati 202
- Ohio State University 27 only
- Cleveland State University 6
- University of Akron 1

**Availability**

Include 999 profiles where availability has not been set

All selected 107

- Industry Projects 16

**Tags**

Include 201 profiles where tags have not been set

All selected 107

- Clinical Sciences 107
- Oncology and Carcinogenesis 140
- Biochemistry and Cell Biology 74
- Public Health and Health Services 74
- Phenetics and Reproductive Medicine 105
- Cardiovascular Medicine and Hematology 53
- Pharmacology and Pharmaceutical Sciences 57

**Pier Scaglioni**  
Professor - Geo - University of Cincinnati

**Claire Verschraegen**  
Professor & Division Director - Ohio State University

**Dr. Ruth Keri**  
Professor - Case Western Reserve University

Patrick Limbach Profile | Ohio Innoc... X

https://test.oh-tech-discov.s... 60%

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BACK TO MY SEARCH

**ABOUT** SCHOLARLY WORKS GRANTS

**BIO**

Pat Limbach is the Vice President for Research, an Ohio Eminent Scholar and Professor of Chemistry at the University of Cincinnati. He is a bioanalytical chemist with research interests in mass spectrometry, modified ribonucleic acids (mRNAs), ribonucleoprotein (RNP) complexes and protein translation. After earning an undergraduate degree from Centre College in 1986, he studied under the direction of Dr. Alan G. Marshall at the Ohio State University. While there, his graduate research focused on instrumentation improvements to Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. He received his PhD from OSU in 1992. He then took a postdoctoral position at the University of Utah working with Dr. James A. McCloskey. While in Utah, he worked in the areas of RNA chemistry and nucleic acid mass spectrometry. In 1996, he joined the faculty at Louisiana State University as an Assistant Professor and was promoted to Associate Professor in 1999. In 2001, he moved to his current position in Cincinnati, being promoted to Professor in 2005. He has served as Department Head in Chemistry at UC from 2005-2010 and as Interim Associate Dean for Research and Graduate Studies in the McMicken College of Arts and Sciences in 2013. He has served as the VP of Research since 2016. Dr. Limbach and his group seek to advance the area of mass spectrometry within modified RNAs and RNPs and collaborate extensively with researchers inside the state of Ohio and throughout the world. Dr. Limbach is an active member of the American Chemical Society, American Society for Mass Spectrometry, Sigma Xi and a lifetime member of Phi Kappa Phi. He also serves on the Scientific Advisory Board for Riboknox, Inc.

**DEGREES**

- B.S. Centre College • 1988
- PhD Ohio State University • 1992

**AVAILABILITY**

**Patrick Limbach**  
0000-0003-9266-4646

VP for Research  
University of Cincinnati

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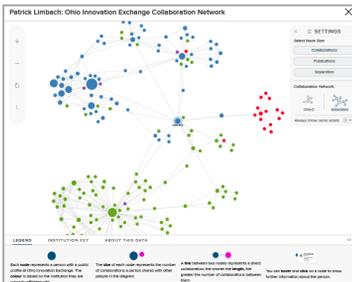
Collaboration Network

LinkedIn  
Limbach Group Biological M... Spectrometry

## RICH NEW FEATURES AND FUNCTIONALITY



### Network of Ohio collaborators



### Profile YouTube media

Media

Random Act of Assembly: child & dog's brains

MORE VIDEOS

Back to Profile



### Custom expertise tags

**Dr Mark Foster**  
T.A. Knowles Professor, Polymer Science • University of Akron  
B.S. ChE Washington University 1981 Ph.D. ChE U. Minnesota, Twin Cities, 1987 Postdoc & temp Staff Scientist: Max Planck Institute for Polymer Research Sr. Postdoc with Frank Bates: U. Minnesota...

Industry Projects

Physical Chemistry (incl. Structural)

Macromolecular and Materials Chemistry Condensed Matter Physics

Materials Engineering Mechanical Engineering

Resources Engineering and Extractive Metallurgy

Chemical Engineering Biochemistry and Cell Biology

Other Physical Sciences Analytical Chemistry



### Grant funding now included

**GRANT**

**Targeting EphA2 in Glioblastoma**  
National Cancer Institute  
15 Mar 2016 - 31 Dec 2021  
WANG B  
LEARN MORE

**GRANT**

**EphA2 kinase in prostate cancer**  
National Cancer Institute  
1 Sep 2011 - 30 Jun 2018  
WANG B  
LEARN MORE

**GRANT**

**Akt-EphA2 Crosstalk in Glioma Invasion**  
National Cancer Institute  
7 Jun 2010 - 30 Apr 2016  
WANG B, MIAO H  
LEARN MORE



### Mobile-friendly experience

**Mrs. Molly Mayer**  
Professor - Educator  
University of Cincinnati

Molly B. Mayer, Educator Professor, joined the University of Cincinnati in 1988. Her primary areas of focus are in Rhetoric and Public Address, and Organizational Communication. She currently teaches Professional Public Speaking, and Business Communication. Professor Mayer also...

**B. Audrey Nguyen**  
Graduate Research Associate  
Ohio State University

**Dr. Bingcheng Wang**  
Assistant Professor  
Case Western Reserve University



### User-friendly profile addresses

ohioinnovationexchange.org/123-joe-smith

Visual representation of a computer monitor displaying the profile URL.