Industries of Ideas:
State Advisory Board

IRIS — INSTITUTE FOR RESEARCH ON INNOVATION & SCIENCE

What is the goal of the Industry of Ideas project?

The goal is to develop a prototype system to directly measure the links between research investments, employers, and jobs. The National Science Foundation's Technology, Innovation, and Partnerships (TIP) Directorate is funding the prototype to test the potential of securely combining university and state data to measure the link between federal investments on local and regional economies for two important technologies: Artificial Intelligence (AI) and Electric Vehicles (EV). (NSF's announcement: myumi.ch/qVAyQ.)
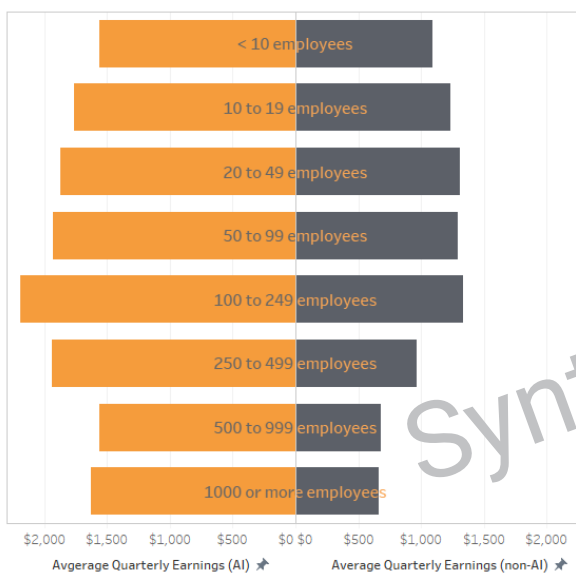
The consortium is piloting a new data infrastructure that combines university and state data to produce dashboards and reports documenting local labor market outcomes of workers In AI and EV intensive firms. This project is approved by the MidWest Collaborative (MWC) as part of the Multi-State Data Collaboratives work being administered by the National Association of State Workforce Agencies (NASWA) (see myumi.ch/VG7QR).

Why are state agencies involved?

TIP has asked the project to prepare detailed plans for expansion that include a report on state agency needs and priorities. There are three dimensions:

- **Scale** expansions will bring new universities and states into the initiative.
- **Scope** expansions will identify high priority needs for additional types of data and measures.
- **Technology** expansions will identify needs for data access and usability to make the system as *valuable and accessible* as possible.

Average earnings at AI research intensive employers are greater than at non-AI research intensive employers across all employer sizes
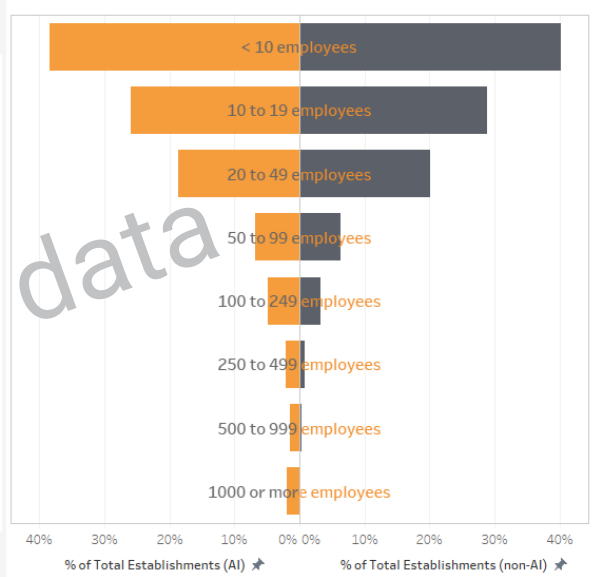
Select by NAICS Sector

How to filter by NAICS sector?
- Single click to choose one;
- Hold Ctrl and Single click to choose more than one;
- Click again to deselect

X 11 Agriculture, Forestry, Fishin..
X 21 Mining, Quarrying, and Oil A..
X 22 Utilities
X 23 Construction
X 31-33 Manufacturing
X 42 Wholesale Trade
X 44-45 Retail Trade
X 48-49 Transportation and Ware..
X 51 Information
X 52 Finance and Insurance
X 53 Real Estate and Rental And L..
X 54 Professional, Scientific and ..
X 55 Management Of Companies a..
X 56 Administrative and Support ..
X 61 Educational Services
X 62 Health Care and Social Assist..
X 71 Arts, Entertainment, and Rec..
X 72 Accommodation and Food Se..
X 81 Other Services (except Public..
X 99 Unclassified

AI research intensive employers are larger than non-AI research intensive employers

Synthetic data

AI Research Intensive Employers
Non-AI Research Intensive Emplo..

Coverage: Mocked up data represents one state-based on QCEW data.
Definitions: AI industries are six-digit NAICS where employers have hired employees who were paid by AI grants at universities before hiring. Non-AI industries are six-digit NAICS where employers were not observed to hire employees paid on university AI grants. Comparisons are made within sectors.
For more information

How can my state benefit from participation in the Industries of Ideas project?

You will help produce high profile evidence about the value of research that can help inform federal and state decision makers. Your participation will:

- ensure that we are developing of the links between research investments and job quality that will be useful and usable to states
- inform the development of tools that help better map the likely relationships between technological change and local labor markets
- support your senior managers and governor in explaining the links between technological change and local labor markets
- open opportunities for your state's participation in any desired future expansion.

What is the specific time commitment?

We will try to keep it simple and with a minimum number of requests on your time. We will provide you with early access to the prototype dashboard and ask for your feedback through a scheduled webinar and virtual office hours, At a minimum we think it could take just a few hours, depending on the level of involvement you would like. While there is no expectation that you will produce written feedback, your input will help shape the final product.

State agency advisory board members are asked to:

- *Attend three webinars*
  The webinars will demonstrate prototype dashboards and reports, where you can provide feedback on their design and how they can be made as usable & useful as possible.
- *Participate in a small working group to provide input on metrics to identify state priorities(optional).*
  Three working groups will be established: Employers and Job Quality, Links between Specific AI and EV technologies and Labor Markets, and Potential Engagement with Universities. The groups will provide input into a "State Priorities" report for TIP, that will be written by the project team.
- *Outreach to the other state agency leaders within your state and nationally(optional)*
  The project is already very visible; your advocacy will help inform any follow-on expansion. We will provide you with materials and project documents for relevant audiences and support your outreach efforts.

If you would like to gather information on how this might be used or discuss with colleagues in your agency to better inform a future expansion, we would be happy to support with any relevant documentation.

What is the project's timeline?

This is a three-year project that will produce a prototype dashboard primarily in Year 1 and Year 2. Year 3 is dedicated to outreach and preparation for expansion.

- Alpha Dashboard and Feedback – May, 2024
- Beta Dashboard and Feedback – September/October, 2024
- Final Dashboard and Feedback – March, 2025
- University Priorities Report Draft – Summer, 2025

For more information

Industries of Ideas slide presentation:
myumi.ch/ErkeN

Industries of Ideas project overview:
myumi.ch/M698n

Industries of Ideas State Advisory Board:
iris.isr.umich.edu/TIP-state

IRIS reports and products:
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