

The Institute for Research on Innovation and Science (IRIS) is an independent, national data resource dedicated to understanding the impact of academic research conducted at universities and other institutions. This university-led consortium is currently housed at the University of Michigan's Institute for Social Research.

IRIS News

April 2016

IRIS

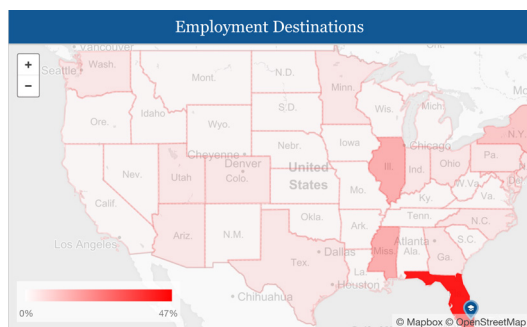
INSTITUTE FOR
RESEARCH ON
INNOVATION & SCIENCE

New IRIS Products

Census Hot Reports

IRIS partners with the US Census Bureau to create statistical reports on:

1. Graduate student and postdoctoral fellows' earnings and employment after they leave the university; and
2. The size, industry, and payroll of university research vendors.

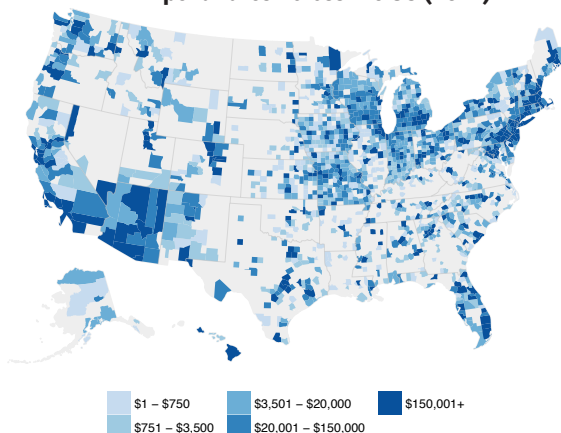


Geography of employers who hire grant-employed staff, faculty, and students (mocked-up data for demonstration purposes).

Federal Spending Reports

IRIS produces information on campus research employment and the geography of university vendor spending. Members use our reports for outreach to state and local elected officials, congressional delegations, trustees, regents and the public.

Federal Funds to IRIS Universities Support Research-Related Expenditures Across the US (2014)



Federal research funds to 14 IRIS universities were used to purchase over \$2.68 billion in goods and services from 1,600 counties across the US.

- All IRIS universities will soon receive interactive web reports.
- A sample report is available online at: <https://irisweb.isr.umich.edu>
- Sample report username & password: **iris & P23ju9by**

Products in Development

IRIS collaborates with our members to develop new products of value. New reports will:

1. Describe the growth of businesses started by researchers on university awards,
2. Examine the vibrant small firm sector supported by academic research, and
3. Map campus and nationwide collaborations among researchers.

Small Business Indicators

The small business sector is a cornerstone of our economy.

In partnership with the U.S Census Bureau and the Small Business Administration, IRIS is working to describe small business employment trajectories for research-funded staff and students, as well as the economic impact of vendor spending.

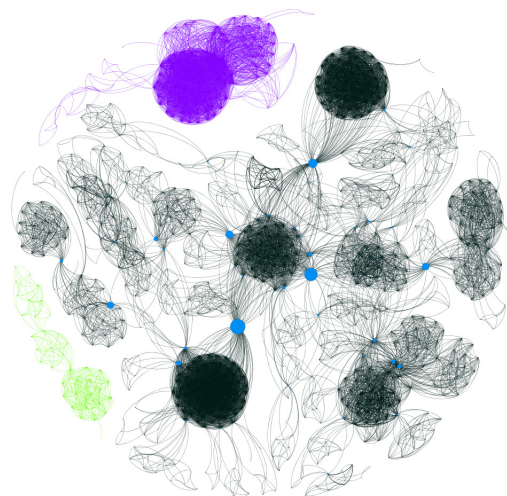
Collaborations Report

Research is a team sport.

IRIS is developing network analyses, as shown to the right, to help universities understand the working relationships among researchers from many fields and units.

This analysis of project clusters (lines) and people funded on the same projects (dots) on one campus, highlights the important of a few researchers (blue dots) spanning multiple projects.

Staff Collaborations on all Research Projects on a Single IRIS Campus



We encourage you to provide ideas for new products to Jason Owen Smith, IRIS Executive Director (jdos@umich.edu).

IRIS Research

IRIS serves as an R&D lab for member institutions and the scientific community to study, explain, and improve the impact research has on our economy and society. Research findings will inform the development of new IRIS products.

Since 2015, IRIS affiliated investigators have received over \$15 million in peer-reviewed funding to build a scientific basis for understanding the social and economic value of research.

Funders include the National Science Foundation, the Small Business Administration, the United States Department of Agriculture, the National Center for Science and Engineering Statistics, and the U.S. Census Bureau. These research projects examine:

- Food Safety and Security,
- Scientific Workforce,
- Entrepreneurial and Innovative Finance,
- Non-Profit Sector Research and Employment, and
- Career and Scientific Outcomes for students and trainees

IRIS University Researcher Community

IRIS looks forward to expanding the number of campus researchers working with IRIS data. We will soon be launching a secure remote-accessible computing environment for IRIS data products.

Researchers at the following institutions are working on these projects:

Georgia Institute of Technology
Ohio State University
Natl Bureau of Economic Research
New York University
Pennsylvania State University

University of Illinois
University of Iowa
University of Maryland
University of Michigan
University of Wisconsin

PhDs pay: study reveals economic benefit of funding doctorates

Investment pays off for the economy, finds groundbreaking US study

December 10, 2015

By Ellie Bothwell Twitter: @elliebothwell



IRIS Research Highlighted in Science

The December 15, 2015 issue of Science featured a research report from matching UMETRICS and U.S. Census Bureau data¹. The analysis covers 2010–2012 earnings and placement outcomes of students who received doctorates in 2009–2011.

This research was termed “groundbreaking” by the Times Higher Education (above) and featured in the Washington Post, Vox, Inside Higher Ed, and more than a dozen other publications.

Key findings include:

- Almost 40% of supported doctorate recipients both federally and nonfederally funded, entered industry
- They were much more likely to get jobs at large and high-wage establishments in high-tech and professional service industries than the rest of the U.S. workforce

¹Zolas, N., Goldschlag, N., Jarmin, R., Stephan, P., Smith, J. O., Rosen, R. F., ... Lane, J. I. (2015). Wrapping it up in a person: Examining employment and earnings outcomes for Ph.D. recipients. Science, 350(6266), 1367–1371.

Membership Update

As of April 2016, IRIS has **24** university members. These universities receive around **\$15 billion** in yearly federal research funding, nearly **23%** of the national total, and train over **11,000** doctoral recipients a year.

Boston University
Harvard University
Michigan State University
New York University
Northwestern University
The Ohio State University
Pennsylvania State University
Princeton University
Purdue University
Rutgers-The State University of New Jersey
Stony Brook University
University of Arizona

University of Cincinnati
University of Colorado, Boulder
University of Hawaii
University of Illinois-Urbana Champaign
University of Iowa
University of Kansas
University of Michigan
University of Missouri
University of Pennsylvania
University of Pittsburgh
University of Virginia
University of Wisconsin-Madison

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