



National Science Foundation
Established Program to
Stimulate Competitive
Research

Scan to
learn more:



BUILDING RESEARCH CAPACITY

Research Infrastructure Improvement (RII) Track-1 awards since 1992

\$88.7 million

NSF EPSCoR
RII Track-1
Investments
in Kansas

25

Faculty hires
for Haskell,
KSU, KU, &
WSU

177

Junior faculty
careers jump-
started with
First Awards

1,487

Publications
anchored to
state's scientific
priorities

WORKFORCE & ECONOMIC DEVELOPMENT

Spotlight: Kansas Data Science Consortium

Linking learners and employers, this hub builds talent for in-demand careers and gleans data insights for organizations statewide.

>400

Business leaders, educators,
& students networking at
annual conferences

data.ku.edu/kdscon

>300

Students trained
in data science
across 7 colleges
& universities

>70

Data projects
shared by partners
for class projects

>5

Class projects added to a
new online repository of free
data science curricula

datarepository.ku.edu

>20

Workshops on
statistics, coding,
& data-related
careers



2.3 to 1 return on investment

Stimulating competitive research in Kansas

For every federal dollar from
NSF pumped into EPSCoR
Track-1, Kansas got back more
than double that in other grants,
leveraging \$155M from a \$66M
investment since 2006.

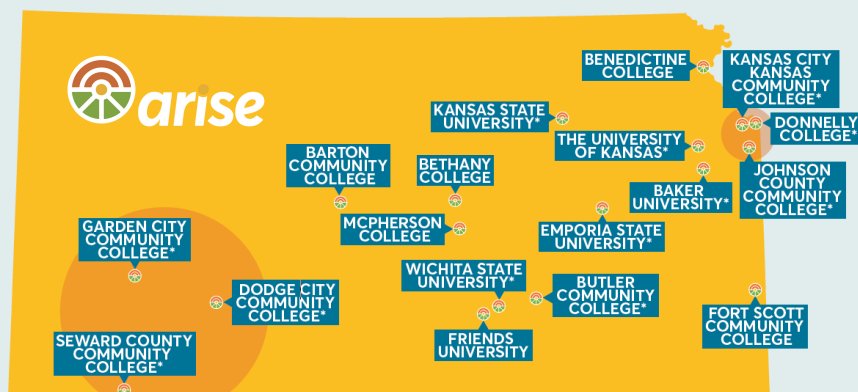


KANSAS
NSF EPSCoR
ADVANCING GEOGRAPHIC DIVERSITY IN STEM



While our home base is at the University of Kansas, our reach is statewide. To bring ambitious ideas to life, we unite change-makers from a vast network of education, government and industry partners.

This map shows the current academic partners of the RII Track-1 Project called ARISE: Adaptive & Resilient Infrastructures driven by Social Equity.



Shaded circles represent location of partner communities in five Kansas counties: Ford, Finney, Seward, Johnson, and Wyandotte.

*Funded partners

arisekansas.org

230

Faculty, students, and others participating in ARISE to date

>2,250

Youth & families engaged in hands-on science so far

7

Community college partners

Current NSF EPSCoR Projects in Kansas

			Cong. District	Amount
Harnessing Artificial Magnetic Semiconductors in the Flatland (PI: Rachael G Farber, #OIA-2521414)	RII FEC Univ. of Kansas	2025-2029	1	\$2,192,722
Circular Waste Resource Recovery and Water Reuse Systems to Drive Sustainability and Resiliency of the Great Plains Rural Communities (PI: Prathap Parameswaran, #OIA-2521392)	RII FEC Kansas State Univ.	2025-2029	1	\$2,500,000
Understanding the effects of tunable media on mass transport during catalytic conversion of polyolefins (PI: Ana Colaco Morais, #OIA 2429771)	Research Fellows Univ. of Kansas	2024-2026	1	\$204,819
Data-Advanced Research and Education to improve weather intelligence and localized climate change assessment and resilience in agriculture-based communities (PI: Xiaomao Lin, collaboration with Univ. of Iowa, #OIA-2420405)	RII FEC Kansas State Univ.	2024-2028	1	\$800,000
Physics-Informed Machine Learning with Organ-on-a-Chip Data for Understanding of Disease Progression & Drug Delivery (PI: Davood Pourkargar, #OIA-2327473)	Research Fellows Kansas State Univ.	2024-2027	1	\$245,403
Sustainable Engineering Infrastructures and Solutions for Tribal Energy Sovereignty (PI: Hongyu Wu, collaboration with University of North Dakota #OIA-2316355)	RII FEC Kansas State Univ.	2023-2027	1	\$1,100,000
Promoting N,O- and CO₂-Relieved Nitrogen Fertilizers for Climate Change-Threatened Midwest Farming and Ranching (PI: Shuang Gu, #OIA: 2316482)	RII FEC Wichita State Univ.	2023-2027	4	\$2,000,000
Supporting rural livelihoods in the water-stressed Central High Plains: Microbial innovations for climate-resilient agriculture (MICRA) (PI: Melanie Derby, #OIA-2316295)	RII FEC Kansas State Univ.	2023-2027	1	\$2,896,478
Adaptive and Resilient Infrastructures driven by Social Equity (ARISE) (PI: Belinda Sturm, #OIA-2148878)	Track-1 Univ. of Kansas	2022-2027	1,2,3,4	\$20,000,000
RII-BEC: Mitigating COVID-19 Career Challenges with Research and Professional Development Training for Undergraduates & Mentors in Field-based Environmental Sciences (PI: Blair Schneider, #OIA-2225863)	RII-BEC Univ. of Kansas	2022-2027	1	\$999,835
Bioplastics With Regenerative Agricultural Properties (BioWRAP) (PI: Vaishali Sharda, #OIA-2119753)	RII FEC Kansas State Univ.	2022-2026	1	\$5,999,428
Advanced Manufacturing of Renewable and Recyclable Polymers (PI: Bala Subramaniam, #OIA-2119754)	RII FEC Univ. of Kansas	2021-2026	1,2	\$4,000,000
RII Track-2 FEC: Critical Resource Availability for the Future of the Renewable Energy Industry: Critical Minerals and Ground Water Resources in Iowa and Kansas (PI: Franciszek Hasiuk, collaboration with Univ. Of Iowa, #OIA-2119551)	RII FEC Univ. of Kansas	2021-2026	1	\$2,190,146

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Total = \$45.1 M