KANSAS NSF EPSCoR

National Science Foundation
Established Program to Stimulate
Competitive Research

Impacts since 2006

BUILDING RESEARCH CAPACITY

$73 M
NSF EPSCoR RII Track-1 Awards since 2006

$2 M
Scientific & computing multi-user equipment

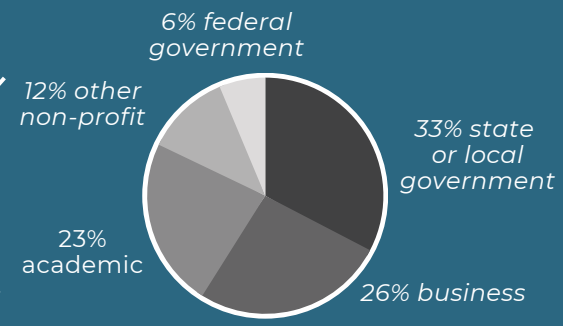
66
Junior faculty careers jump-started with First Awards

12
Faculty hires for HINU, KSU, KU, & WSU

ECONOMIC & WORKFORCE DEVELOPMENT

New hub for data science connects **86** students with community partners, offering data solutions free of charge.

29 partners span economic sectors



121
Native scholars gained research experience; 45 went on to grad school

764
Undergraduate & graduate students gained research experience

40
High school teachers gained training

RETURN ON INVESTMENT

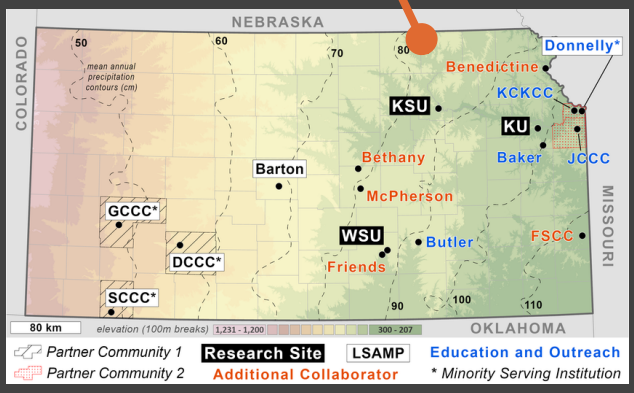
2.4 to 1
For every dollar NSF EPSCoR pumped into research, Kansas got back more than double in non-EPSCoR funds, leveraging $132M from a $56M investment.

KANSAS NSF EPSCoR

Our mission is to build capacity for science and engineering research in Kansas while fostering a diverse workforce.

SUCCESS STORIES

We are pioneering a new approach to resilience. Rather than focusing solely on efficiency like conventional tools, our team factors in principals of social equity and local insights to transform how communities manage infrastructure. Project includes partners statewide.



Our research has shown that microbiomes help crops survive droughts and beef up carbon in soil, forging a path for farmers to both feed the world and curb climate change

A mobile museum trekked 700 miles to share bilingual exhibits about microbes statewide.

Current NSF EPSCoR Funding in Kansas	Type / Lead Institution	Years	Cong. District	Amount
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)	Track-2 FEC Kansas State Univ.	2022-2026	1	$5,999,428
Advanced Manufacturing of Renewable and Recyclable Polymers (PI: Bala Subramaniam, #OIA-2119754)	Track-2 FEC Univ. of Kansas	2021-2025	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)	Track-2 FEC Univ. of Kansas	2021-2023	1	$2,190,146
Aquatic Intermittency Effects on Microbiomes in Streams (AIMS) (PI: Amy Burgin, #OIA-2019603)	Track-2 FEC University of Kansas	2020-2024	1	$5,998,875
Metrology and spectroscopy of individual nanomagnets dynamics using quantum sensor-based (NV- center) nano-magnetometry (PI: Kapildeb Ambal, #OIA-2033210)	Track-4 Wichita State Univ.	2021-2024	4	$209,287
RII Track-2 FEC: The IceCube EPSCoR Initiative (IEI) - IceCube and the Data Revolution (PI: David Besson, collaboration with South Dakota School of Mines #OIA-2019597)	Track-2 FEC Univ. of Kansas	2020-2024	1	$3,482,661
Robust Matrix Completion State Estimation in Low-Observability Distribution Systems under False Data Injection Attacks (PI: Hongyu Wu, #OIA-1929147)	Track-4 Kansas State Univ.	2019-2023	1	$198,686
Tailored Flow Boiling Mechanisms Using 3D Printed Multifunctional Wick Structures (PI: Gisuk Hwang, #OIA-1929187)	Track-4 Wichita State Univ.	2019-2023	4	$243,635
Marshalling Diverse Big Data Streams to Understand Risk of Tick-Borne Diseases in the Great Plains (PI: A. Townsend Peterson, #OIA-1920946)	Track-2 FEC Univ. of Kansas	2019-2023	1	$3,921,229
RII Track-2 FEC: Consortium for Plant Invasion Genomics (CPING): Combining Big Data and Plant Collections to Understand Invasiveness (PI: James Beck, collaboration with Univ. Of Louisiana at Lafayette, #OIA-1920858)	Track-2 Wichita State Univ.	2019-2023	4	$138,682
Building Field-Based Ecophysiological Genome-to-Phenome Prediction (PI: Stephen Welch, #OIA-1920946)	Track-2 FEC Kansas State Univ.	2018-2023	1	$4,000,000
Microbiomes of Aquatic, Plant, and Soil Systems across Kansas (MAPS) (PI: Kristin Bowman-James, #OIA-1656006)	Track-1 Univ. of Kansas	2017-2023	1,4	$20,000,000
			Total Funds	**$71,382,464**

All districts bolstered by current NSF EPSCoR project

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