

EPSCoR Funding in Kansas



Climate Change and Energy Science



More than 60 scientists are collaborating on solutions for a cleaner environment by advancing the science of renewable energy sources. They are working in teams on interrelated research initiatives, including:

- Nanotechnology for Renewable Energy – scientists are studying the use of physics and nanotechnology to harness solar power, by designing molecules and molecular frameworks to replicate photosynthesis and provide more efficient photovoltaic cells.
- Biofuels and Climate Change – the study of how farmers make land use decisions.
- Climate Change and Mitigation – predicting the effects of climate change on agriculture.
- Climate Change in Indigenous Communities – see Pathways to STEM Careers, below.

A Cybercommons for Ecological Forecasting

- EPSCoR researchers at four universities in Kansas and Oklahoma are developing a new cyber network to share ecological forecasting research much more quickly and easily.
- This research has the potential for enormous impact in terms of human health (mapping and predicting diseases), agriculture and sustaining natural resources.



Cyberconnectivity



- EPSCoR funding is significantly boosting the bandwidth of KanREN, the Kansas Research and Education Network, and will also make the network more stable and reliable to benefit research institutions across Kansas.
- These upgrades will also support the 800+ member institutions of Kan-ed, a statewide networking organization that encompasses two- and four-year colleges, most of the unified school districts, and other schools, libraries and hospitals.

Workforce Development

- Since 2006, Kansas NSF EPSCoR research has supported 83 graduate students and 93 undergraduate students.
- Our First Awards, competitive awards made to early career faculty at the state's three research universities, provided funding to eight junior faculty in 2010; awards for 2011 are underway.

Pathways to STEM careers for Native American students

- Native American undergraduate students at Haskell Indian Nations University are participating in summer internships, in which they design research projects. Two students affiliated with this program are now pursuing graduate degrees in science. Several of the students presented their research at the Living Earth Festival in August 2010 at the National Museum of the American Indian.



Kansas NSF EPSCoR		
	NSF EPSCoR RII funding	NSF EPSCoR Cofunding
2010	6,176,470	2,073,730
2009	5,562,500	594,845
2008	2,250,000	2,744,071
2007	2,250,000	1,229,806
2006	2,250,000	2,730,000
Total	18,488,970	9,372,452