

Meeting Delaware's 21st Century Water and Energy Challenges through Research, Education, and Innovation

Accomplishments 2003–2017

Research Themes & Network

The Delaware EPSCoR research network includes 319 participants at four Delaware institutions, including 21 faculty hired since the program's inception. Faculty and students are involved in research projects that seek to (1) understand the effects of sea level rise on contaminant mobility and cycling; (2) determine the impacts of land use and climate changes on water and natural ecosystems; (3) develop sensor technology and enhance environmental monitoring networks; and (4) contribute to innovations in renewable energy. More than 820 journal articles have been published as a result of research directly or indirectly funded by EPSCoR.

Social Dimensions

We recognize that even the most robust environmental science will not succeed in providing viable solutions unless we understand the social dimensions involved in implementing those solutions. Interwoven throughout our scientific research themes are concurrent social, economic, and policy studies designed to increase our understanding of human responses to environmental challenges.



Leaders of our Track 2 grant in neuroscience will employ fMRI brain imaging techniques.

Track 2 Collaborations

In the past year, Delaware EPSCoR has successfully completed a Track 2 project with Vermont and Rhode Island to develop a network of advanced water-quality sensors in the northeast U.S. and to determine how stakeholders use and respond to the data collected by the sensors. We also launched a new Track 2 project in cognitive neuroscience along with EPSCoR programs in Nebraska and Nevada.



Consumers participate in an economic study at our mobile lab.

Diversity Initiative

Each year, Delaware EPSCoR engages about 130 students in research. The students are diverse, thanks to effective partnerships with diverse universities across Delaware and beyond. In 2016, more than 50 percent of our student researchers were women, and more than 40 percent were members of underrepresented groups in science, technology, engineering and math fields.



DE-EPSCoR interns from Florida A&M and Cheyney Universities.

Economic & Workforce Development

Our Spin In® experiential learning program pairs businesses in need of product development assistance with interdisciplinary teams of students. To date, 20 projects have been conducted with 115 students. Delaware EPSCoR faculty and students have submitted 72 invention disclosures and 11 patents have been awarded. Six faculty-led startups have received assistance in moving from the laboratory to the marketplace.

Total Funding to Delaware 2003-2017*



*as of February 6, 2017

Overall Funding Since 2003: \$138 Million

The NSF/NASA EPSCoR programs and the State of Delaware have provided \$61 million in direct EPSCoR funding to Delaware to support capacity building. The support has resulted in an additional \$77.8 million in funding for 194 awards to the EPSCoR faculty including \$53.3 M for 133 research awards; \$10.1M for 24 education awards; \$7.4M for 21 CAREER awards; \$4M for 3 center awards; \$1.5 for 9 innovation awards; and \$1.5M for 4 equipment awards.







