Delaware Established Program to Stimulate Competitive Research (EPSCoR)

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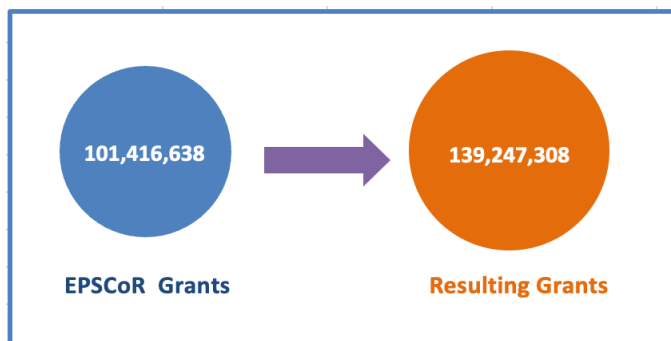Email address: als@udel.edu

UR: https://de-epscor.org & http://projectwicced.org

Water in a Changing Coastal Environment of Delaware Accomplishments 2003–2023

NSF EPSCoR has catalyzed several sustained research initiatives in Delaware, including the Delaware Environmental Institute (DENIN), the Center for Experimental and Applied Economics (CEAE) and the Center for Science, Ethics and Public Policy (CSEPP) at the University of Delaware and the Center for Integrated Biological and Environmental Research (CIBER) at Delaware State University. The research network includes 217 participants at partnering Delaware institutions, including 22 faculty hired since the program's inception. Faculty and students are involved in research projects that seek to examine the extent to which Delaware's water security is threatened by deteriorating water quality; 2) the effect that deterioration may have on ecosystem health; 3) how we can we mitigate effects; 4) and how we can design policies and programs to affect change in water quality. More than 870 journal articles have been published as a result of research directly or indirectly funded by EPSCoR.

Overall Funding Since 2003: $240 Million*

The NSF/NASA/DOD/DOE/EPA EPSCoR programs and the State of Delaware have provided $101 million in direct EPSCoR funding to Delaware to support capacity building. The support has resulted in an additional $139 million in funding for 293 awards to EPSCoR faculty including $88.5M for 198 research awards; $19M for 7 center awards; $16M for 43 education awards; $10M for 27 CAREER awards; $4M for 8 equipment awards; and $1.5M for 10 innovation awards.

101,416,638 → 139,247,308

EPSCoR Grants → Resulting Grants

*as of January 2023

Program Overview

Delaware was designated an EPSCoR state in January 2003. The University of Delaware, Delaware State University, and Delaware Technical & Community College are partners in Delaware's EPSCoR Research Infrastructure Improvement Track 1 Program.

Three main goals drive Delaware's EPSCoR program:

- Engage science, engineering, economics and policy experts in a vibrant, globally competitive, research and education community in Delaware

- Develop a new and diverse generation of science, technology, and policy experts through targeted education programs, engaging public audiences, and building capacity for the communication of science and policy.

- Manage the project with a focus on long-term sustainability, building competitive research teams, and integrating new initiatives into the fabric of our institutions and state.

Workforce & Economic Development

Future Environmental Leaders

The Delaware Environmental Institute (DENIN) Fellows program, launched through Delaware NSF EPSCoR, supports doctoral students whose environmental research bridges science and society. Since 2014, DENIN has supported 45 Fellows through support from NSF EPSCoR and private philanthropy. Former Fellows have gone on to excellent positions as university faculty, as owners of start-up businesses, and as scientists in government agencies and foundations such as EPA, NSF, NOAA, and the Charles Stewart Mott Foundation. To learn more, visit: https://www.denin.udel.edu/students-page/denin-environmental-fellows**/**.

DENIN ENVIRONMENTAL FELLOWS 2014 – 2022

NSF EPSCoR catalyzed the creation of the Office of Economic and Innovative Partnerships (OEIP). OEIP, through the Delaware Small Business Development Center's (DSBDC) Data Assured™ Program, is leading a national effort in developing cybersecurity programs for small businesses, including counseling, training, resources, industry-specific training, etc. In addition, across the State, the Spin In® initiative enables undergraduate students to engage in an entrepreneurial, experiential learning program to solve real-life business challenges faced by early-stage start-ups. The program has engaged in 37 projects with over 200 students, developed 17 new products, and assisted in development of 5 new businesses.

Statewide Funding: 2022

Program/Grant Name	Type / Institution	FY	Cong District	Amount $
EPSCoR RII Track 1: (PI: Kent Messer – NSF:1757353)	Track-1/University of Delaware	2022	DE-001	3,563,361
State of Delaware RII Track 1: (PI: Kent Messer – NSF:18A00195)	Grant/University of Delaware	2022	DE-001	768,000
EPSCoR Co-Funding (PI:Mark Cabry - NSF: 2201554)	Grant/University of Delaware	2022	DE-001	91,813
EPSCoR Co-Funding (PI :Lena Mashayekhy - NSF:2201554)	Grant/University of Delaware	2022	DE-001	413,113
EPSCoR Co-Funding (PI:Hakeem Lawal- NSF:2131750)	Grant/University of Delaware	2022	DE-001	973,923
EPSCoR Co-Funding (PI: Joshua Cashaback - NSF: 2146888)	Grant/University of Delaware	2022	DE-001	308,416
EPSCoR Co-Funding (PI: Mark Ku - NSF:2203829)	Grant/University of Delaware	2022	DE-001	270,000
EPSCoR Co-Funding (PI: Rachel Davidson - NSF:2209190)	Coop. Agree/University of Delaware	2022	DE-001	10,750,000
EPSCoR Co-Funding (PI: Hacene Boukari - NSF: 2219731)	Grant/Delaware State University	2022	DE-001	584,970
EPSCoR Co-Funding (PI: Frank Schroeder - NSF: 2209483)	Grant/University of Delaware	2022	DE-001	1,500,000
EPSCoR Co-Funding (PI: Marianthi Ierapetritou - NSF: 2134471)	Grant/University of Delaware	2022	DE-001	3,000,000
DOE EPSCoR (PI: Joel Rosenthal - DOE: DE-SC0021068)	Grant/University of Delaware	2022	DE-001	746,019
NASA EPSCoR (PI: William Mattheus- NASA: 80NSSC19M0087)	Grant/University of Delaware	2022	DE-001	1,000,000
NSF EPSCoR (PI: Jared Medina- NSF:2225805)	EPSCoR BEC/University of Delaware	2022	DE-001	999,881
DOD ERDC: (PI: Jack Puleo - DOD:W912HZ-22-2-0015)	Coop. Agree/University of Delaware	2022	DE-001	2,500,142
DOD ERDC: (PI: Donald Sparks- DOD:W912HZ-20-2-0041)	Coop. Agree/University of Delaware	2022	DE-001	1,656,681
NSF EAR (PI: Holly Michael - NSF 2130602)	Grant/University of Delaware	2022	DE-001	176,789
NSF IUCRC-Indust-Univ Coop Res Ctr (PI: Pinki Mondal- NSF: 2209620)	Grant/University of Delaware	2022	DE-001	20,000
Harry R. Hughes Center for Agro-Ecology (PI: Pinki Mondal- #109021-Q0056301)	Grant/University of Delaware	2022	DE-001	140,235
NSF Instrumentation & Facilities (PI: Angelia Seyfferth-NSF:2131105)	Grant/University of Delaware	2022	DE-001	96,337
NSF Collaborative Research (PI: Wilfred Chen - NSF:2221893)	Grant/University of Delaware	2022	DE-001	251,126
NSF Collaborative Research (PI: Andrew Wozniak- NSF:2148471)	Grant/University of Delaware	2022	DE-001	1,035,261
NSF SAI (PI: Carolyn Voter - NSF: 2228662)	Grant/University of Delaware	2022	DE-001	123,556
NSF Convergence Accelerator (PI: Kelly Cobb - NSF: 2236100)	Grant/University of Delaware	2022	DE-001	745,310
USDA AFRI (PI: Angelia Seyfferth - USDA: 2022-67019-36102)	Grant/University of Delaware	2022	DE-001	750,000

Total Funds 32,464,933