NSF EPSCoR IN MAINE

Since 1980, $113.9M in NSF EPSCoR funding has supported the development and implementation of nine Track 1 grants in Maine. These grants have driven the growth of the STEM workforce, increased state competitiveness, and improved the capacity and infrastructures needed to advance research and development in the state.

NSF EPSCOR TRACK 1 GRANTS 1980-2019

- $125M Add-on Grants from NSF-Funded Research*
- 1,524 Scientific Journal Publications
- 920 Statewide Undergraduate Research Internships
- 416 Major Research Collaborations
- 239 Statewide High School Research Internships
- 36 Patents, Products, Companies Created
- 43 New Faculty Hires

SUPPORTING MAINE INNOVATION

EPSCoR programs are the catalyst that has built many of Maine's signature interdisciplinary research and development centers, institutes, and research laboratories which support collaborative work and partnerships throughout the state and the region.

4 Research Centers, 3 Institutes, and 11 Laboratories established since 1980

* during award period
CURRENT NSF EPSCOR GRANTS

Track-1: FY 2014-19 Sustainable Ecological Aquaculture Network (SEANET) ($20M)

Informing regulators, investors, and the public on the best available science in sustainable aquaculture
- 4 new faculty hires at UMaine and University of New England (UNE)
- 17 early career faculty
- 5 postdoctoral researchers
- 52 graduate & 269 undergraduate students
- 122 high school interns
- 16 commercial partners
- $15.2M in follow-on grant awards


Helping individuals and communities make better decisions about dams
- Cross-jurisdictional with Maine, New Hampshire, and Rhode Island
- 7 early career faculty
- 2 postdoctoral researchers
- 12 graduate & 13 undergraduate students

Track-3: FY 2018-22 Genome-to-Phenome: Integrating Genome and Phenome Analyses of Individual Microbial Cells in Complex Microbiomes ($4.4M)

Improving tools for the isolation of microbes to understand the molecular composition of microbial communities (environmental DNA - eDNA)
- Cross-jurisdictional with Maine, New Hampshire, and Nevada (Led by Bigelow Laboratory)
- Newest EPSCoR grant in the state

Track-4: FY 2019-2020 Advanced Control Strategies for Floating Offshore Wind Farms ($96K)

Finding strategies that best harness wind energy while reducing costs for floating wind farms
- 1 graduate student
- Target partner: National Wind Technology Center

Track-4: FY 2019-2020 Diffuse Optical Imaging for Early Detection of Diabetic Polyneuropathy ($162K)

Using imaging techniques to generate heat maps capable of highlighting markers for diabetic polyneuropathy
- 1 graduate student
- Target partner: Boston University BOTLab

Track-2: FY 2018-22 Genomic Ecology of Coastal Organisms (GECO): A Systems-Based Research and Training Program in Genome-Phenome Relationships ($1.8M)

Developing a GECO research and training program to advance understanding of the genetic bases of organismal responses to natural environments
- Cross-jurisdictional with Maine and New Hampshire
- 2 postdoctoral researchers
- 3 graduate, 10 undergraduate students

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