

# 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

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

## 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

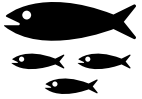


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The University of Maine is an equal opportunity/affirmative action institution.

# 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



## Track-2: FY 2015-19 Future of Dams in New England (\$2M)

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-4: FY 2019-20 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 Single Cell 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-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



## 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