

# Strategic Initiatives to Stimulate Research, Development, and Commercialization

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## Objective

The objective of the UMS Research Reinvestment Fund is to strengthen **research, development and commercialization** activities tied to Maine industries that are critical to the future of the state. In the first three years the program focused on creating an **innovation pipeline** by establishing a portfolio of R&D projects with strong commercialization potential. In its fourth year of funded activities the RRF program has placed a far greater emphasis on **accelerating research commercialization**.

## By the Numbers

After nearly four years of operation, the RRF program has:

Received **389** proposals from UMS researchers spanning all **7** campuses.

**133** projects have been competitively selected for award totaling **\$5.1M** in grant funding.

Key outcomes include:

**131** follow-on grants submitted to external sponsors requesting **\$72,527,657**

**49** were funded for a cumulative total of **\$14,758,416** in follow-on grants.

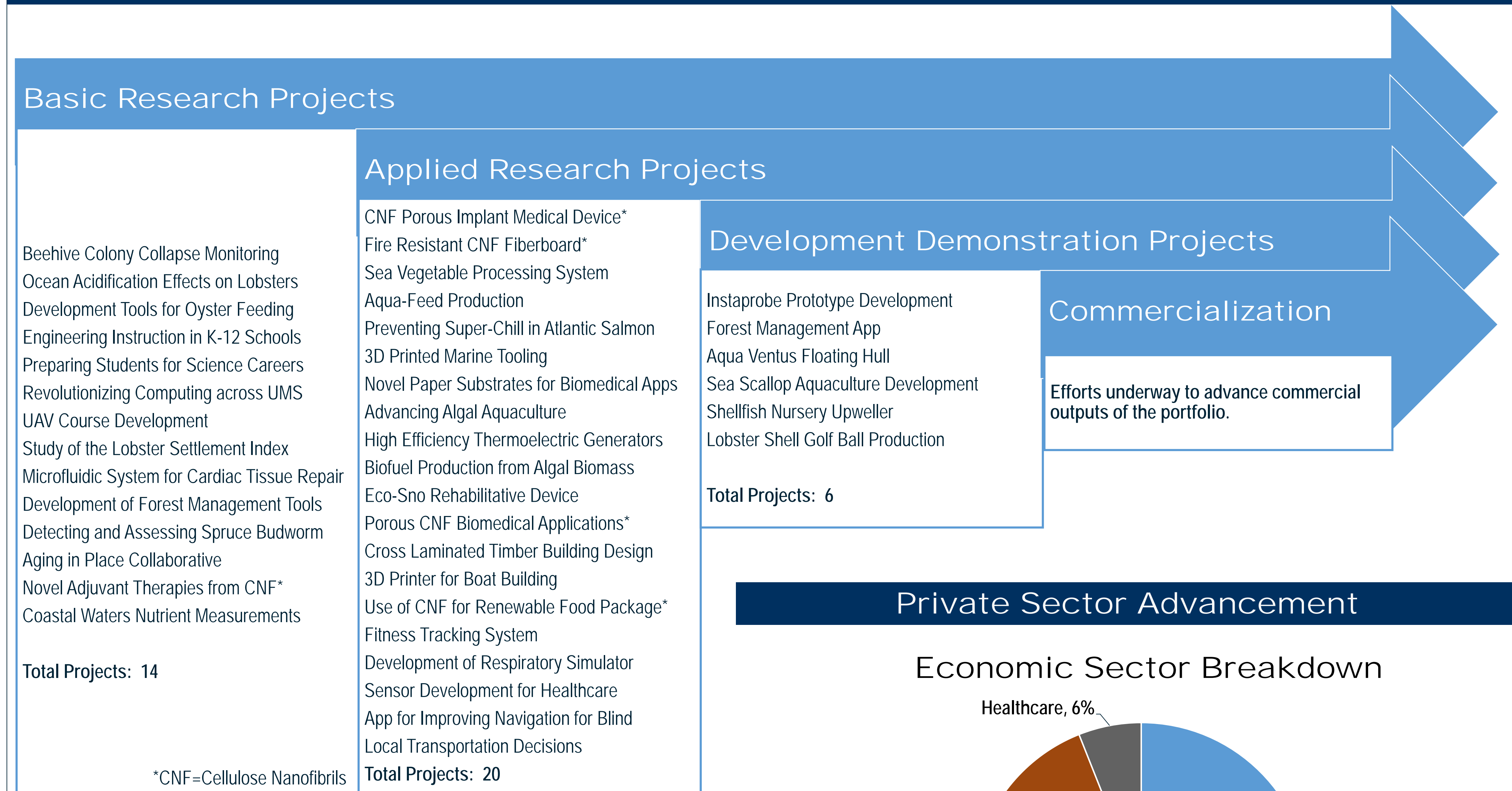
A return on investment of **3:1**.

Project partnerships with **169** external organizations.

## Stimulation of Grant Activity

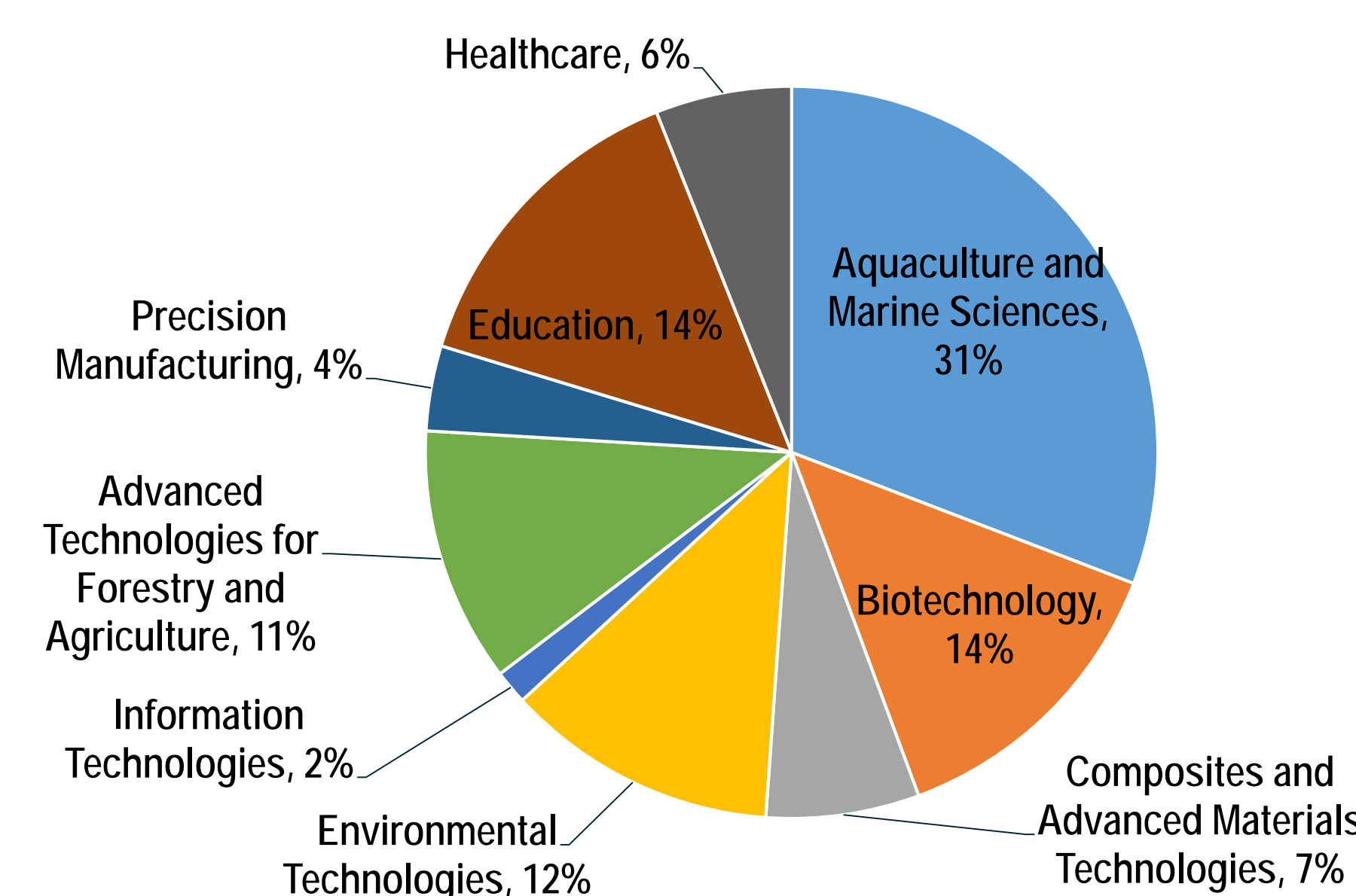
Year	Submitted	\$Submitted	Awarded	\$Awarded	\$Matched	Planned	\$Planned
1	3	\$7,175,212	1	\$9,948	-	-	-
2	63	\$23,599,816	17	\$8,402,299	\$8,050,000	7	\$4,450,000
3	65	\$41,752,629	31	\$6,346,169	\$2,071,124	62	\$18,335,227
<b>Total</b>	<b>131</b>	<b>\$72,527,657</b>	<b>49</b>	<b>\$14,758,416</b>	<b>\$10,121,124</b>	<b>69</b>	<b>\$22,785,227</b>

## Seed Grant Project Portfolio: Research Reinvestment Fund Continuum



## Private Sector Advancement

### Economic Sector Breakdown



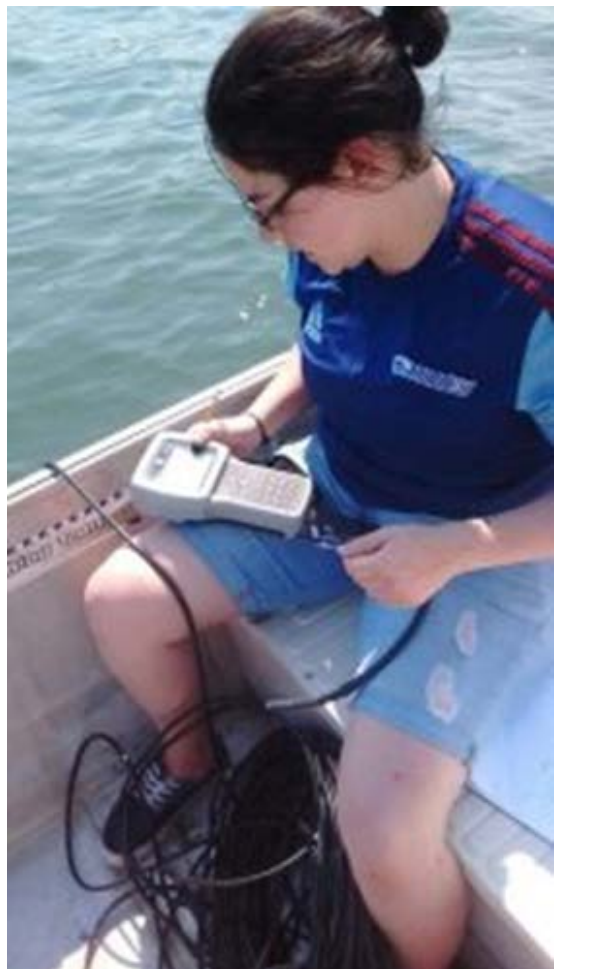
## Examples of the 169 External Partners



## Examples of Successful RRF Projects

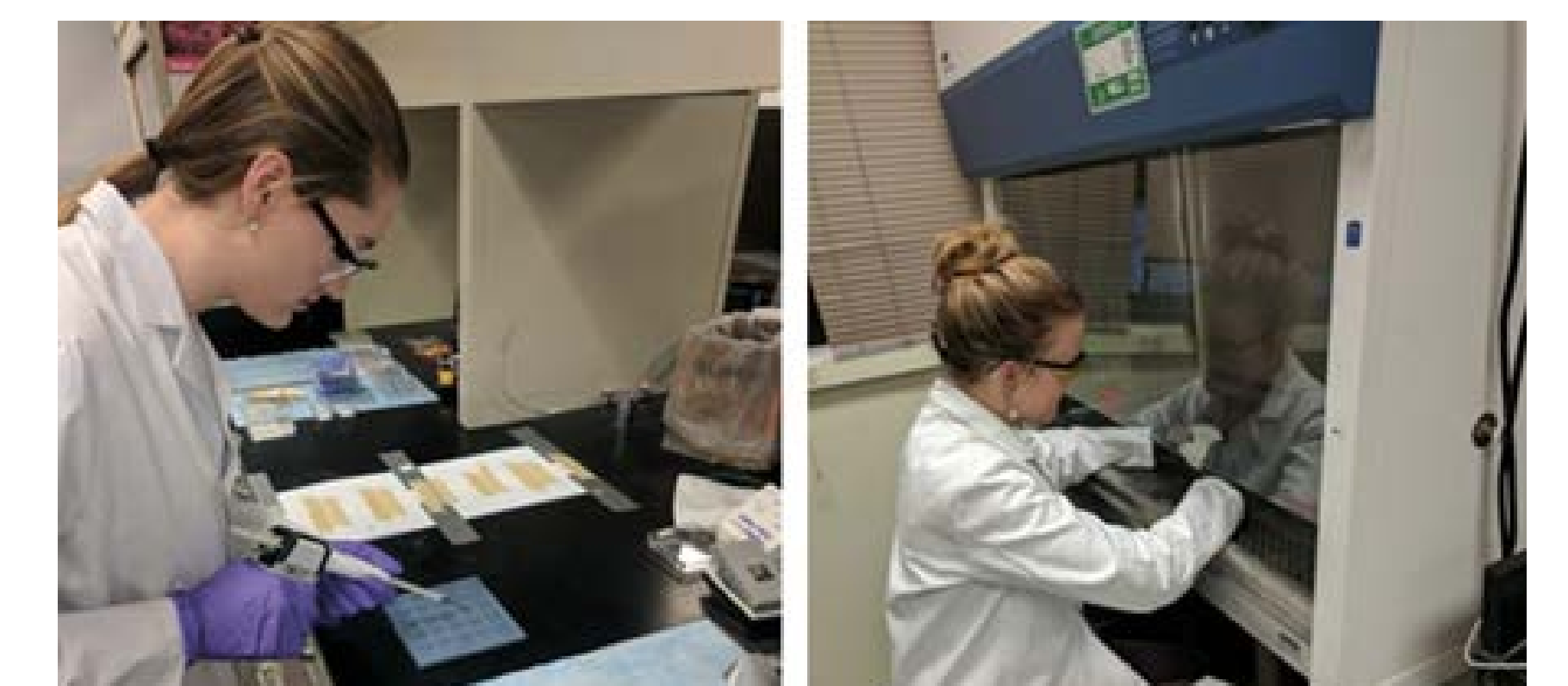
Modeling Bacterial Circulation on Maine Mudflats

- Round: Graduate Assistant
- PI: Damian Brady
- External Partner: NOAA
- Outcomes: Tide measuring drifter development, student and commercial fishing engagement



Liquid-Infused Paper Substrates for New Biomedical Applications

- Round: Seed Grant
- PI: Caitlin Howell
- External Partners: Adaptive Surface Technologies, Sappi Paper
- Outcomes: Funding commitment from Sappi; An invitation for proposal submission from the DoD; Manuscript preparation



Prototype Development for Detection of Wine and Beer Spoilage Yeasts

- Round: Accelerator, Seed
- PI: Laurie Connell
- External Partner: Constellation Consortium
- Outcomes: License agreement and beta testing



## Future Plans

- Increase support for commercialization, industry partnership, and large center grants.
- Continue competitive grant programs to support new research, commercialization, and workforce development projects.
- Compete an additional round of Phase II Accelerator Grants in AY 18-19.

## Private Sector Engagement

### Number of External Partners by Category

