

## Projects for Sea Grant Aquaculture Supplemental Awards (2020)

### California Sea Grant

- Supporting six projects to be led by members of the California Sea Grant aquaculture team: 1) Genomic and epigenomic sequencing to map the genetic potential for rapid adaptation to ocean acidification and hypoxia in the Pacific oyster, *Crassostrea gigas*; 2) Using aquaculture to help mitigate impacts of harmful algal blooms on crustacean fisheries: accelerating depuration to produce safe and marketable seafood products; 3) Identifying factors influencing suspension feeding to optimize culture of the purple-hinge rock scallop, *Crassadoma gigantea*; 4) Outreach to enhance knowledge about and inform development of California aquaculture; 5) Assess feasibility of native species aquaculture: Identification of candidate species and sources of brood/seedstock and propagules; 6) Assessing the role of digestive efficiency and impairment on gonad conditioning in abalone aquaculture

### Connecticut Sea Grant

- Ensuring economic viability of Connecticut shellfish aquaculture following the COVID-19 pandemic

### Delaware Sea Grant

- Spurring economic growth and enhancing the environment through the development of an oyster remote setting system in Delaware

### Florida Sea Grant

- Strengthening and expanding HARVEST education programming for students interested in Florida's aquaculture industry (Helping Aquaculture Reap Value and Enhance Student Training)

### Georgia Sea Grant

- Identifying foodborne pathogen sources in a commercial aquaponics system

### Guam Sea Grant

- Creating a new aquaculture extension assistant position

### Hawai'i Sea Grant

- Documenting and communicating attributes of traditional aquaculture and fisheries practices across Hawai'i and the United States Affiliated Pacific Islands (USAPI)

### Louisiana Sea Grant

- Supporting three projects to be led by members of the Louisiana Sea Grant aquaculture team: 1) Identifying the physiological and molecular causes of elevated summer mortality in triploid oysters; 2) White spot syndrome virus: potential reservoirs and occurrence in crawfish harvesting waters and sediments; 3) Comparing the success of oyster larvae from a traditional flow-through system hatchery versus a novel recirculating sea-water system hatchery

## Maine Sea Grant

- Supporting three projects to be led by members of the Maine Sea Grant aquaculture team: 1) Rapid detection of *Vibrio parahaemolyticus* for successful oyster management; 2) Supporting aquaculture research administration; 3) Supporting aquaculture extension internships

## Maryland Sea Grant

- Expanding capacity for Maryland Sea Grant's aquaculture portfolio

## MIT Sea Grant

- Supporting two projects to be led by members of the MIT Sea Grant aquaculture team: 1) Advanced imaging and sensing technology for improved aquaculture fish cage management; 2) Autonomous surface vehicles for maintenance and intervention in aquaculture farming to improve occupational health and safety

## Minnesota Sea Grant

- Increasing capacity in the Minnesota Sea Grant aquaculture program through a Fisheries and Aquaculture Extension Educator

## Mississippi-Alabama Sea Grant Consortium

- Investing in cooperative research to evaluate the ecosystem services provided by farm-raised oysters used for reef enhancement (Phase 1)

## New Hampshire Sea Grant

- Responding to unforeseen aquaculture industry needs related to the impacts of COVID-19

## New Jersey Sea Grant Consortium

- Supporting two projects to be led by members of the New Jersey Sea Grant Consortium aquaculture team: 1) Impacts of oyster aquaculture gear on submerged aquatic vegetation recruitment and recruitment processes; 2) Optimizing Atlantic striped bass aquaculture through the integration of duckweed and macroalgae

## New York Sea Grant

- Developing a strong, sustainable New York state aquaculture network

## North Carolina Sea Grant

- Supporting four areas to be led by members of the North Carolina Sea Grant aquaculture team: 1) Providing support for North Carolina Sea Grant aquaculture extension programming related to impact assessments and recovery; 2) Facilitating technical exchanges through expanded engagement opportunities; 3) Investing in aquaculture tourism market re-tooling and expansions; 4) Expanding mariculture educational products and workforce training opportunities.

## Ohio Sea Grant

- Increasing capacity to grow aquaculture in Ohio through an Aquaculture Extension Educator

## Oregon Sea Grant

- Developing the Oregon Sea Grant Aquaculture Fellowship

## Rhode Island Sea Grant

- Supporting two projects to be led by members of the Rhode Island Sea Grant aquaculture team: 1) Assessing the human health safety of kelp aquaculture and macroalgae associated with oyster farms; 2) Does breeding disease tolerant oysters increase disease in coastal marine ecosystems?

## Texas Sea Grant

- Developing an education, outreach and engagement program to support Texas oyster farmers through an Aquaculture Extension Specialist

## Virginia Sea Grant

- Supporting two areas to be led by members of the Virginia Sea Grant aquaculture team: 1) Effective program management and leadership of programming; 2) Analyzing and aiding efforts to direct market shellfish aquaculture products

## Washington Sea Grant

- Expanding outreach efforts for two on-going projects: The Washington Coast Shellfish Aquaculture Study (WCSAS) and Catalyzing a Cross-Pacific Regional Collaborative Hub to Advance Indigenous Aquaculture Practices and Enhance Marine Food Production for Cultural-Ecological Benefits (Hub Project)

## Wisconsin Sea Grant

- Creating the Wisconsin Keillor Fellowship in Aquaculture to support applied research and outreach

## Woods Hole Sea Grant

- Investigating effects of environmental quality on early stage juvenile shellfish growth and survival: an aquaculture approach using in situ eutrophication and coastal acidification gradients