

# Addressing the Impacts of Multiple Stressors on Shellfish Aquaculture through Research/Industry Partnerships

## NOAA-OAR-SG-2021-2006704

Letter of Intent (LOI) due date:  
11:59 pm Eastern Time on December 15, 2020

Full Proposal due date:  
11:59 pm Eastern Time on March 16, 2021



Presented by:  
Michael Acquafredda,  
NOAA OAP Knauss Fellow

# Agenda

**NOFO  
Overview**

**Eligibility**

**LOI  
Requirements**

**Full Application  
Requirements**

**Evaluation  
Criteria**

**Q & A**

# NOFO Overview

This competition seeks to establish, continue, and/or expand collaboration between researchers and shellfish growers in order to study and address how acidification and at least one other environmental stressor affects the U.S. shellfish aquaculture industry.

## Program Priorities

**1. Partnerships**

**2. Knowledge**

**3. Deliverables**

# Priority 1 - Partnerships

The proposed work must utilize a **co-production of knowledge framework**.

**Co-production of knowledge** is the process by which information is created when shellfish growers collaborate with researchers throughout ALL aspects of the scientific process

**Effective co-production means that growers and researchers...**

- Collectively,
  - Conceive objectives
  - Design the study
  - Execute the work
  - Disseminate findings across communities
  - Develop deliverables
- Communicate regularly
- Are compensated equitably
- Build or strengthen a community of practice



**Strong applications** will bolster an existing community of practice, like NSGO-supported Aquaculture Collaboratives (HUBs), or OAP-supported Coastal Acidification Networks (CANs)

# Priority 2 - Knowledge

Proposed work must develop scientific knowledge on the impacts of **acidification, in combination with other stressors**, on shellfish aquaculture

**Co-stressors may include (but are not limited to)...**

- Temperature
- Salinity,
- Hypoxia
- Pathogens and parasites
- Harmful algal blooms
- Environmental contaminants

Research may be based on **observational data, experimental data, or both**

Projects may be geared towards any phase **(hatchery, nursery, or grow-out)** of shellfish production



**Strong applications** will aim to produce results that can be published in peer-reviewed journals

# Priority 3 - Deliverables

**Create deliverables** that are broadly applicable to building resilience within the shellfish aquaculture sector.

**Deliverables may include (but are not limited to)...**

- Data products (e.g. apps, models, infographics, manuals)
- Tools and technologies
  - Note, developing sensor technology is permitted, but not preferred
- Best management practices

## **Outreach/ Tech Transfer Plan**

must be included in the application to ensure that growers throughout the region learn about the project's outcomes



**Strong applications will produce deliverables** responsive to greater regional needs, rather than benefiting a single grower or specific culture area

# Eligibility

- Each application must include **at least one researcher and at least one shellfish grower acting as co-Principle Investigators.**
- US institutions of higher education, nonprofits, commercial organizations, and state, local, and tribal governments.
- Federal employees may act as co-PIs but may **NOT** act as the PI that submits the application package to grants.gov.
  - Non-NOAA federal applicants may be funded, but contact the Program Manager
- Match Requirement
  - For every \$4 in federal funds *requested*, at least \$1 in non-federal matching funds must be *provided*
  - Federal labs and offices can make their resources available for use in projects, but those assets **CANNOT** be used as match



**Letters of Intent (LOI)** must be submitted, for a full proposal to be considered.



If no co-PI is affiliated with a Sea Grant program, we recommended, **you obtain a letter of support from your local Sea Grant director**, and submit it with your full application

# LOI Requirements



Email LOIs to the Program Managers  
([oar.hq.sg.aquaculture@noaa.gov](mailto:oar.hq.sg.aquaculture@noaa.gov))  
by 11:59 pm Eastern Time on  
Tuesday, December 15, 2020

## 1. Cover page (maximum 1 page)

- Project title & co-PI information
- Budget overview

## 2. Research Plan (maximum 1 page)

- Discussion of the topic, objectives, approach, and expected results
- Budget justification

## 3. Statement describing plan for co-production of knowledge (maximum 1 page)

- How will the team conduct their research using a co-production framework?
  - Responsibilities of each co-PI?
  - Communication strategies & meeting frequency?
- How does this proposal build or strengthen a community of practice?
  - Who is the community of practice?
  - How does it represents diverse perspectives?



**Full proposals will be encouraged if the proposed work...**

1. Relates to the program priorities
2. Clearly articulates the problems being addressed
3. Utilizes a co-production of knowledge framework to accomplish the work
4. Sufficiently builds or strengthens a community of practice

# Full Proposal Requirements

## 1) Project Narrative (17 pages max)

### A. Project description

- Cover page (1 page *suggested*)
- Background (3)
- Objectives (1/2)
- Project details (5)
- Outcomes & Deliverables (1)
- Timeline (1)
- Statement of Co-production (2)
- Outreach/Tech transfer Plan (2)
- Diversity Statement (1)
- Works cited (no limit, doesn't count towards page limit)
- CVs (2 pages per PI; doesn't count towards page limit)
- Current/pending support (no limit, doesn't count towards page limit)

### B. Abbreviated Environmental Compliance Questionnaire

### C. Data Management Plan

## 2) Budget Narrative

### A. 90-4 Form

### B. Budget Justification

## 3) Forms

- SF-424, SF-424A, SF-424B, CD-511, and SF-LLL



**Full proposal applications must be submitted to Grants.gov by 11:59 p.m. Eastern Time on Tuesday, March 16, 2021.**

# Evaluation Criteria

- 1. Importance/relevance to the program goals (35 percent).**
  - Intrinsic value and relevance to NOAA
  - Priority 1
- 2. Technical/scientific merit (30 percent)**
  - Technically sound and/or innovative, appropriate methods
  - Clear project goals, objectives, and data management considerations.
  - Priority 2 & 3
- 3. Overall qualifications of applicants (5 percent)**
- 4. Project costs (5 percent)**
  - Realistic and commensurate with the project needs & time frame.
  - Equitable distribution of funds between researchers and growers.
- 5. Outreach and Education (15 percent)**
  - Responsive to the shellfish aquaculture industry
  - Outreach/Tech Transfer Plan
- 6. Diversity, Equity, and Inclusion (10 percent)**
  - Does the proposed work broaden participation of underrepresented groups (e.g., gender, ethnicity, disability, geographic, etc) in STEM?

# Questions

## **NOAA-OAR-SG-2021-2006704**

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Send to Competition Manager, Rebecca Certner,  
at [oar.hq.sg.aquaculture@noaa.gov](mailto:oar.hq.sg.aquaculture@noaa.gov)

**Full Proposal due date:**

**11:59 pm Eastern Time on March 16, 2021**

Submit on [grants.gov](https://grants.gov)

**Send additional questions to:**

Rebecca Certner at [oar.hq.sg.aquaculture@noaa.gov](mailto:oar.hq.sg.aquaculture@noaa.gov)

Erica Ombres at [Erica.H.Ombres@noaa.gov](mailto:Erica.H.Ombres@noaa.gov)