

# NCRA

North Central Regional Aquaculture Center

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Request for

**Regional Research and  
Outreach Project Pre-  
Proposals FY2020**

# Request for the North Central Regional Aquaculture Center (NCRAC)

## Regional Research and Outreach Pre-Proposals for Funding Year 2020 (FY2020)



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**Pre-proposals are due by 5 p.m. (CDST)  
Friday, November 29, 2019**



United States  
Department of  
Agriculture

National Institute  
of Food and  
Agriculture

# North Central Regional Aquaculture Center

## *Please Copy and Distribute to All Interested Parties*

The North Central Regional Aquaculture Center (NCRAC) is seeking pre-proposals for the regional project: **Measuring the Impacts of NCRAC-Funded Projects**. There is approximately \$75,000 available from NCRAC for a 1-year project to address impact assessment of NCRAC-funded projects on either Extension or fish health. See <https://www.ncrac.org/projects> for reports and projects in these two areas.

**Goal.** — The overall goal of this evaluation is to assess the scientific, socio-economic, and policy impacts of accomplishments achieved through NCRAC's portfolio of recently funded Extension and Fish Health projects since 1988. Incorporated in this synthesis is how these projects have or have not helped move the aquaculture industry closer to solutions for the diversity of problems it faces within the region. From the resultant information, suggestions for achieving higher impacts are to be identified that NCRAC should consider in its future funding initiatives.

**Objectives.** — Specific objectives to are: 1) review the effectiveness of NCRAC-funded projects (Extension or fish health) on regional aquaculture development; 2) summarize and describe lessons learned and outcomes generated (including, where possible an estimate of the return on investment) from projects funded through the NCRAC Extension and Research processes; 3) evaluate the effectiveness of project approaches to promote solutions for aquaculture source problems; provide examples where the NCRAC funding mechanisms have worked synergistically or where they have failed to develop synergies; and 4) deliver results of the synthesis to NCRAC, the science community, and relevant stakeholder groups (e.g., industry, municipal, state and federal agencies, commodity organizations).

### **Specific Criteria for Regional Projects**

The following criteria are used to prioritize cooperative regional research and extension/outreach projects for receiving NCRAC funding:

- Involves at least two institutions and activities within two states depending on the nature of the problem and the most effective use of resources within the North Central Region (NCR).
- Three (3) *Letters of Support* from Industry members who are not directly involved in the proposed project are required.
- Is likely to attract additional support for research and/or outreach on the problem that will not otherwise be addressed using other resources.
- Can be made sufficiently specific to promise significant accomplishment within four or fewer years.
- Can be effectively organized and conducted on a regional level, ensuring coordinated and complementary contributions by all participants.
- Can include onsite or farm locations to provide proof of concept or real time economic analysis.
- Produces results that can provide the solution to a problem of fundamental importance or fill an information-gap in knowledge from the standpoint of present and future aquaculture in the North Central Region.
- Contain an outreach component with defined objectives and deliverables.

- Research on the problem requires more scientific labor, equipment, and facilities than are generally available at individual research institutions (the resources of two or more research institutions are required).
- Is adaptable and particularly suitable for inter-institutional cooperation, resulting in better use of limited resources and research funds.
- Complements and enhances ongoing research by participating research institutions.

### **Pre-Proposal Review**

Executive committees of the Industry Advisory Council (IAC), Technical Committee/Research (TC/R) and Technical Committee/Extension (TC/E) will conduct electronic reviews of RFAs; IAC – industry relevance, TC/E – deliverables and extension products, TC/R – technical merit/scientific method.

### **Conflict of Interest**

Any member of the IAC or TC who desires involvement in any capacity with proposed and funded projects may remain on the IAC or TC. However, any member who is funded by a NCRAC project or potentially may be funded by a proposal under consideration at the IAC/TC annual meeting must be excused during any final deliberation or review leading to a vote related to said project or proposal. He/she is also excluded from any vote related to said project or proposal during any breakout sessions of the IAC and Research and Extension Subcommittees of the TC. The chair of the session announces when final deliberation or review leading to a vote is to commence and excuses those with a conflict of interest. Further, an individual who has been identified as having a Conflict of Interest may still provide objective input into other projects under consideration. Receipt of individual input implies no conflicting affiliations or interests of that individual.

## **Other Information**

Guidelines for development of pre-proposals and the pre-proposal format are enclosed for your information. Please note that the NCRAC pre-proposal and full proposal review processes are highly competitive, and the proposed budget is an important criterion used in assessment of pre-proposals and full proposals.

## **Pre-proposals Submission and Deadline**

See Guidelines section (attached) for specific instructions.

*Send the Pre-proposal by email:* Send both PDF and WORD versions to: [ncrac@iastate.edu](mailto:ncrac@iastate.edu).

## **Deadline for submission of pre-proposals is Friday, November 29, 2019.**

NCRAC encourages early submission of pre-proposals. If a pre-proposal is received at least two weeks prior to the final deadline, this will allow time for the Administrative Office to review the pre-proposal using the checklist and inform the authors what requirements are not met, thereby providing the authors time to adjust and re-submit before the final deadline.

A Pre-Proposal must meet the following requirements or it will not be accepted:

- Received by the announced deadline. Electronic submission by the due date qualifies as meeting the deadline – printed copies must be received within a day of the deadline.
- Three *Letters of Support* (not directly associated with the project) from industry members or associations are required to provide additional evidence of the benefits to the aquaculture industry of the proposed project.
- Each element is addressed in the order presented on the Checklist.
- Include checked and signed Checklist by the lead Principal Investigator (PI).
- NCRAC also strongly encourages investigators who are submitting a pre-proposal for the first time to consult with the Executive Director, Dr. Joseph E. Morris ([jemorris@iastate.edu](mailto:jemorris@iastate.edu)) for questions regarding the pre-proposal submission process.
- To meet the deadline of Friday, November 29, 2019, please plan accordingly to ensure inclusion of all necessary components and signatures.

## Guidelines: Pre-Proposal Format

Pre-proposal shall not exceed four (4) pages not including the references, budget and the 1-page vita for all project participants.

### Project Title

*Targeted Research/ Industry Development/ Extension Area or Emerging Opportunities/ Issues being addressed.*

#### Investigator(s):

Name:

Phone:

Affiliation:

Fax:

Street Address:

E-mail:

City, State, Zip Code

#### Project Summary:

Text limited to 200 words (approximately half a page) that describes the project in everyday language without the use of scientific or technical jargon. State the problem, challenge or issue your project is addressing. Include dollar estimates if it's an economic issue (e.g., a potential decrease in feed costs). Briefly, tell how this project will address or solve the problem or challenge. Answer the "Who cares?" or "So what?" question: Why is this worth the attention of people? How does this impact the lives of real people? What difference will it make, and to whom? What is the benefit or potential benefit of a successful project?

#### Objective(s):

State objectives clearly and concisely in a logical sequence. Include only those objectives on which significant progress can be made during the life of the project with the facilities, and human and financial resources committed in the Pre-proposal. Objectives should be related to a coordinated effort of individuals involved, and should relate to a problem of regional scope.

#### Approach:

Procedures should correspond with each numbered objective and described in sufficient detail to clearly delineate the methodology to be followed. Descriptions should be adequate enough to allow a reviewer familiar with the subject to evaluate the approach. The responsibilities, work assignments, and budgets for each participating institution must be stated in the procedure for each objective.

#### Facilities Available:

Describe the facilities available, the location of each facility and specific procedure(s) to be conducted at the location. Sufficient information should be included to enable the reviewer to assess the suitability of facilities and to evaluate the joint planning and coordination by the Work Group.

#### Outreach and Evaluation Plan:

A well-considered and appropriate outreach component is an essential part of any NCRAC project. Increasing attention to the quality of outreach has been emphasized by USDA-NIFA, and has received considerable emphasis from NCRAC's Board of Directors. To ensure the necessary Extension/Outreach components are included in the full proposal investigators should review <http://www.ncrac.org/files/presentation/file/NCRAC%20Logic%20Model%20and%20Impact%20Statements.pdf> for needed details and include text that addresses program development and delivery. A complete Logic Model will be required for all full proposal submissions.

**Proposed Summary Budget for Year \_\_\_\_\_**  
**For All Participating Institutions (additional budget pages should be prepared for each year of proposed budget)**

	<b>NCRAC Funds</b>				
	Objective #	Institution (PI Name)	Institution (PI Name)	Institution (PI Name)	Project Total
Salaries, Wages, and Fringe Benefits					
Nonexpendable Equipment					
Materials and Supplies					
Travel					
All Other Direct Costs					
Total					

**Budget Justification**

(PI Name)

**Objectives: #**

- A. Salary, Wages and Fringe Benefits (\$ and reason)
- B. Nonexpendable Equipment
- C. Materials and Supplies
- D. Travel
- E. All Other Direct Costs

## VITA

Name  
Address

Phone:  
Fax:  
E-mail:

### **EDUCATION**

B.S. (Institution, Year, Major/Field of Study)  
M.S. (Institution, Year, Major/Field of Study)  
Ph.D. (Institution, Year, Major/Field of Study)

### **POSITIONS**

List each position on a separate line from newest to oldest

### **SCIENTIFIC AND PROFESSIONAL ORGANIZATIONS**

List alphabetically each organization on a separate line

### **SELECTED PUBLICATIONS**

List from newest to oldest relevant publications. Follow format of the American Fisheries Society which is as follows, including spelling out journal titles:

(1) ARTICLES IN JOURNALS AND OTHER PERIODICALS listed in *BIOSIS Serial Sources* (BIOSIS, Philadelphia): author(s); year; title; serial; volume; issue (if needed); inclusive pages. Include the issue number only when each issue starts with page 1.

Crawshaw, L. I., D. E. Lemons, M. Palmer, and J. M. Messing. 1982. Behavioral and metabolic aspects of low temperature dormancy in the brown bullhead, *Ictalurus nebulosus*. *Journal of Comparative Physiology B* 148:41–47.

Hochachka, P. W. 1990. Scope for survival: a conceptual “mirror” to Fry’s scope for activity. *Transactions of the American Fisheries Society* 119:622–628.

Kennedy, V. S. 1990. Anticipated effects of climate change on estuarine and coastal fisheries. *Fisheries* 15(6):16–24.

Kent, M. L., G. S. Traxler, D. Kieser, J. Richard, S. C. Dawe, R. W. Shaw, G. Propseri-Portia, J. Ketcheson, and T. P. T. Evelyn. 1998. Survey of salmonid pathogens in ocean-caught fishes in British Columbia, Canada. *Journal of Aquatic Animal Health* 10:211–219.

(2) BOOK: author(s); year; title; edition (other than 1<sup>st</sup>) or volume (if part of a series); publisher; city; state, province, or country (only if needed to locate city). Omit the number of pages.

APHA (American Public Health Association), American Water Works Association, and Water Environment Federation. 1992. *Standard methods for the examination of water and wastewater*, 18<sup>th</sup> edition. APHA, Washington, D.C.

Hoar, W. S., and D. J. Randall, editors. 1988 *Fish physiology*, volume 11, part B. Academic Press, New York.

Rheinheimer, G. 1985. *Aquatic microbiology*, 3<sup>rd</sup> edition. Wiley, New York.

Waters, T. F. 1995. *Sediment in streams: sources, biological effects, and control*. American Fisheries Society, Monograph 7, Bethesda, Maryland.

(3) ARTICLE IN A BOOK: author(s); year; title; inclusive pages; editor(s); book title; publisher; series name (if appropriate); city; state, province or country (only if needed to locate city). Identify conference proceedings by year of publication, *not* by the year of the meeting, and give the publisher's name and location (i.e., where the proceedings may be obtained), *not* the location of the meeting.

Adams, S. M., and J. E. Breck. 1990. Bioenergetics. Pages 389–415 in C. B. Schreck and P. B. Moyle, editors. *Methods for fish biology*. American Fisheries Society, Bethesda, Maryland.

Campton, D. E. 1995. Genetic effects of hatchery fish on wild populations of Pacific salmon and steelhead: what do we really know? Pages 337–353 in H. L. Schramm, Jr., and R. G. Piper, editors. *Uses and effects of cultured fishes in aquatic ecosystems*. American Fisheries Society, Symposium 15, Bethesda, Maryland.

Livingstone, A. C., and C. F. Rabeni. 1991. Food-habitat relations of under yearling smallmouth bass in an Ozark stream. Pages 76–83 in D. C. Jackson, editor. *The first international smallmouth bass symposium*. Mississippi Agriculture and Forestry Experiment Station, Mississippi State University, Mississippi State.

(4) DISSERTATION OR THESIS: author; year; title; dissertation; university; city; state, province, or country (only if needed to locate city).

Chitwood, J. B. 1978. The effects of threadfin shad as a forage species for largemouth bass in combination with bluegill, redear, and other forage species. Master's thesis. Auburn University, Auburn, Alabama.

Hartman, K. J. 1993. Striped bass, bluefish, and weakfish in the Chesapeake Bay: energetic, trophic linkages, and bioenergetics model applications. Doctoral dissertation. University of Maryland, College Park.

(5) GOVERNMENT PUBLICATION: author(s) or agency; year; title; agency; type and number of publication; city; state, province, or country (only if needed to locate city).

EPA (U.S. Environmental Protection Agency). 1986. Quality criteria for water. EPA, Report 440/5–86–001, Washington, D.C.

Gimbarzevsky, P. 1988. Mass wasting on the Queen Charlotte Islands: a regional inventory. British Columbia Ministry of Forests and Lands, Land Management Report 29, Victoria.

(6) CONTACT REPORT: author(s); year; title; organizations that issued the report (if different from the author); organization that received the report; receiver's city; state, province, or country (only if needed to locate city).

Smith, A. B. 1986. Turbine-induced fish mortality at Highrise Dam, 1985. Report of Robertson Consultants to Prairie Utilities, Jonesville, Alberta.

(7) INTERNET CITATIONS: author(s) or agency; year; title; publisher; URL; month and year accessed.

Baldwin, N. A., R. W. Saalfield, M. R. Dochoda, H. J. Buettner, and R. L. Eshenroder. 2000. Commercial fish production in the Great Lakes 1867–1996. Great Lakes Fishery Commission. Available: [www.glfrc.org/databases/commercial/commerc.asp](http://www.glfrc.org/databases/commercial/commerc.asp). (September 2000).

## CHECKLIST FOR SUBMISSION OF PRE-PROPOSALS

- \_\_\_ Follow guidelines with the exception of the budget sheets
- \_\_\_ Format manuscripts for 22 x 28 cm (8½ x 11 inch).
- \_\_\_ Number *all* pages sequentially.
- \_\_\_ Use 10 font; Times New Roman. Do not justify right margins.
- \_\_\_ Format headings appropriately
- \_\_\_ Leave at least a 2.5-cm (1-inch) margin on all sides.
- \_\_\_ Use metric units of measurement with English units in parenthesis, e.g., 2.54 cm (1 inch).
- \_\_\_ Define all abbreviations the first time they are used.
- \_\_\_ Express ratios by using a slant line (e.g., mg/L).
- \_\_\_ Scientific names should accompany common names in the title and when they are first mentioned in the abstract and in the text. Authority for scientific names need not accompany the genus and species unless needed for clarity.
- \_\_\_ Spell out one to ten unless followed by a unit of measurement (e.g., four fish, 4 kg, 14 fish). Do not begin a sentence with a numeral. Use 1,000 instead of 1000; 0.13 instead of .13; and % instead of percent.
- \_\_\_ Use the 24-hour clock for dial time: 0830, not 8:30 a.m. Calendar date should be day month year (7 August 1990).
- \_\_\_ Assemble the manuscript in this order: Title Page, Project Summary, Objective(s), Approach, Facilities, Budget, and Curriculum Vitae for Principal Investigators (PIs).
- \_\_\_ Three *Letters of Support* (not directly associated with the project) from industry members or associations are required to provide additional evidence of the benefits to the aquaculture industry of the proposed project.
- \_\_\_ All identified co- PIs have been provided a final draft of the pre-proposal.
- \_\_\_ Submit in Word format

*If the NCRAC Administrative Office cannot verify inclusion of any element, the Pre-Proposal will not be accepted.*

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Principal Investigator Signature

Date