FY 22-31 *PROJECT* PROPOSAL

DEVELOPMENT OF MARICULTURE (EXCLUDING FINFISH)

**Proposals requesting FY22 - 31 funding are due to** **shiway.wang@alaska.gov** **and** **elise.hsieh@alaska.gov** **by March 29, 2021. Please note that the information in your proposal and budget form will be used for funding review.** **Please refer to the Invitation for the specific proposal requirements for each Focus Area. The information requested in this form is in addition to the information requested in each Focus Area and by the Invitation. We may make inquiries regarding the project and proposer(s), including consulting with agencies or other parties that may be interested in this work. Please indicate below if your proposal contains confidential information.**

Does this proposal contain confidential information? [ ] Yes [ ] No

Project Number\* and Title

\*Number will be assigned by EVOSTC office if this is a new project.

Text

Primary Investigator(s) and Affiliation(s)

Text

Date Proposal Submitted

Text

Project Abstract (maximum 300 words)

The abstract should provide a brief and concise overview of the overall goals and hypotheses of the project and provide sufficient information for a summary review as this is the text that will be used in the public work plan and may be relied upon by the EVOSTC Public Advisory Committee and other parties.

Text (Please note, this form uses Word Styles which you can find in the Home ribbon. This style is Parag 1: EVOSTC. To apply the appropriate style when copying and pasting text from another document, select the text and then click on Parag 1: EVOSTC in the Style ribbon).

EVOSTC Funding Requested\* (round to the nearest hundred, must include 9% GA)

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| **FY22** | **FY23** | **FY24** | **FY25** | **FY26** | **FY22-26 Total** |
|  |  |  |  |  |  |
| **FY27** | **FY28** | **FY29** | **FY30** | **FY31** | **FY27-31 Total** |
|  |  |  |  |  |  |
| ***FY22-31 Total*** |  |

*\*If the amount requested here does not match the amount on the budget form, the request on the budget form will considered to be correct.*

Non-EVOSTC Funds to be used, please include source and amount per source:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **FY22** | **FY23** | **FY24** | **FY25** | **FY26** | **FY22-26 Total** |
|  |  |  |  |  |  |
| **FY27** | **FY28** | **FY29** | **FY30** | **FY31** | **FY27-31 Total** |
|  |  |  |  |  |  |
| ***FY22-31 Total*** |  |

1. EXECUTIVE SUMMARY (maximum ~1500 words, not including figures and tables)

Please provide a summary of the project including key hypotheses and overall goals. Describe the background and history of the problem. Include a scientific literature review that covers the most significant previous work history related to the project. Include [which injured resources and services](http://www.evostc.state.ak.us/index.cfm?FA=status.injured) will be studied and describe how these affected resources, services and ecosystems will benefit from this project. Projects are limited to species historically found in the Spill Area or shellfish species currently cultured in Alaska that can meet the State Alaska’s licensing and permitting requirements – does this project meet this requirement?

Text (Please note, this form uses Word Styles which you can find in the Home ribbon. This style is Parag 2: EVOSTC which is indented to align with the heading numbering. To apply the appropriate style when copying and pasting text from another document, select the text and then click on Parag 2: EVOSTC in the Style ribbon).

1. RELEVANCE TO THE INVITATION (maximum 300 words)

Discuss how the project addresses the projects of interest listed in the Invitation and the overall goals and objectives of the Focus Area. Describe the results you expect to achieve during the project, the benefits of success as they relate to the topic under which the proposal was submitted, and the potential recipients of these benefits.

Text

1. PROJECT HISTORY (maximum 400 words)

Is this a new or continuing project? If continuing, please describe the history of the project and what has been accomplished to date (i.e., numbers of publications, presentations, podcasts etc.). Please include detailed references to products (i.e., publications, reports, and websites) in the literature cited section.

Text

1. PROJECT DESIGN
2. Objectives and Hypotheses

List the objectives of the proposed project and concisely state why the project is important. Also include an outline of specific restoration objectives independent of mariculture objectives. If your proposed project builds on recent work, provide justification that the data are valuable and will remain valuable and if any changes are proposed. If the proposed project is for new work, provide justification of how the project will provide data useful to addressing management objects, Focus Area goals, and further the Council’s mission of recovering injured natural resources and their services.

If applicable (research projects supporting the development of mariculture), clearly state the hypotheses, and describe how these hypotheses contribute to supporting the development of mariculture in the Spill Area.

Text

1. Study Design, Procedural and Scientific Methods

For each objective listed in A. above, describe the study design and identify the specific methods that will be used to meet the objective. Project proposals that seek to continue to contribute new data to the data sets collected in previous years using the same protocols and project design must provide justification that the past methods applied are still appropriate. If changes are needed based on current information a justification for the changes must be provided.

In describing the methods for lab work, field work, collection and analysis, identify measurements to be made and the anticipated precision and accuracy of each measurement and describe the sampling equipment in a manner that permits an assessment of the anticipated raw-data quality.

If applicable, discuss alternative methods considered, and explain why the proposed methods were chosen. In addition, projects that will involve the lethal collection of birds or mammals must comply with the EVOSTC’s policy on collections, available on our [website](http://www.evostc.state.ak.us/index.cfm?FA=policies.home).

Text

1. Data Analysis (If Applicable), Statistical Methods (If Applicable) and Measuring Project Success

If applicable, describe the process for analyzing data. Describe the statistical power of the proposed sampling program for detecting a significant change in numbers based on statistical analyses such as power or sensitivity analysis. To the extent that the variation to be expected in the response variable(s) is known or can be approximated, proposals should demonstrate that the sample sizes and sampling times (for dynamic processes) are of sufficient power or robustness to adequately test the hypotheses. For environmental measurements, what is the measurement error associated with the devices and approaches to be used?

Analyses and methods proposed must be justified. Project proposals that seek to continue to contribute new data to the data sets collected in previous years using the same protocols and project design must provide justification that the past methods applied are still appropriate. If changes are needed based on current information a justification for the changes must be provided.

Describe a plan that will be used to evaluate and measure the success of this project.

Text

1. Description of Study Area

Is the study area within the [Spill Area](https://evostc.state.ak.us/oil-spill-facts/spill-map/)? Describe the study area, including maps and figures, if applicable, decimally-coded latitude and longitude readings of sampling locations or the bounding coordinates of the sampling region (e.g., 60.8233, -147.1029, 60.4739, -147.7309 for the north, east, south and west bounding coordinates).

Text

1. COORDINATION AND COLLABORATION
2. With the Alaska SeaLife Center or Prince William Sound Science Center

A preferred requirement for all proposals is to partner with the ASLC, PWSSC, or both Centers. If not collaborating with either of these Centers, please provide information as to the inquiries and efforts extended to ASLC and PWSSC researchers and/or administrators.

Text

1. With the EVOSTC LTRM Program

Provide a list and clearly describe the functional and operational relationships with the other EVOSTC proposed projects in the LTRM Program. This includes any coordination that has taken or will take place and what form the coordination will take (project guidance, shared field sites or researchers, research platforms, sample collection, data management, equipment purchases, etc.).

Environmental Drivers Component

Text

Pelagic Monitoring Component

Text

Nearshore Monitoring Component

Text

Lingering Oil Monitoring Component

Text

Herring Research and Monitoring component

Text

Synthesis and Modeling Component

Text

Data Management Project

Provide a clear timeline for the submission of data and metadata by individual researchers and when the data will be made available to the public (see Section 7). Data collected by researchers employed by any federal agency must comply with Federal Open Data Policy Requirements.

Text

1. With Other EVOSTC-funded Projects (not within the LTRM Focus Area)

Indicate how your proposed project relates to, complements, or includes collaborative efforts with the existing projects funded by the EVOSTC that are not part of an EVOSTC-funded program. Anticipated continuing individual projects for FY22 include project numbers 21210128, 21200127, and 21110853. Use the [project search function](https://evostc.state.ak.us/restoration-projects/project-search/hrm-program-modeling-and-stock-assessment-of-pws-herring-20120111-c/) for project details.

Text

1. With Other Proposed EVOSTC Mariculture Focus Area Projects

Indicate how your proposed project relates to, complements, or includes collaborative efforts with proposed EVOSTC mariculture focus area projects.

Text

1. With Proposed EVOSTC Education and Outreach Focus Area Projects

Indicate how your proposed project relates to, complements, or includes collaborative efforts with proposed EVOSTC education and outreach focus area projects.

Text

1. With Trustee or Management Agencies

Please discuss if there are any areas which may support EVOSTC trust or other agency work or which have received EVOSTC trust or other agency feedback or direction, including the contact name of the agency staff. Please include specific information as to how the subject area may assist EVOSTC trust or other agency work.

If the proposed project requires or includes collaboration with other agencies, organizations, or scientists to accomplish the work, such arrangements should be fully explained, and the names of agency or organization representatives involved in the project should be provided. If your proposal is in conflict with another project or program, note this and explain why.

Text

1. With Native and Local Communities

Provide a detailed plan for local and Alaska Native community involvement in the project. **This is a mandatory requirement for all proposals.**

Text

1. DELIVERABLES

List and describe expected products that will come from this project. Deliverables include but are not limited to papers, reports, recordings, films, websites, presentations, data, and metadata. Project PI(s) will be responsible for all deliverables unless otherwise noted below.

Text

1. PROJECT STATUS OF SCHEDULED ACCOMPLISHMENTS

Milestones are annual steps to meet overall objectives.

Tasks are annual steps to meet milestones (for example, sample collection, data analysis, manuscript submittal, etc.)

Deliverables are products that will be produced from the project (see section 6 above).

For each milestone, task, and deliverable listed, specify by each quarter of each year these will be accomplished. C = completed, X = planned or not completed.

For multi-year projects, reviewers will use this information in conjunction with project reports to assess whether the project is meeting its objectives and is suitable for continued funding.

Project milestone and task progress by fiscal year and quarter, beginning February 1, 2022. C = completed, X = planned or not completed. Fiscal Year Quarters: 1= Feb. 1-April 30; 2= May 1-July 31; 3= Aug. 1-Oct. 31; 4= Nov. 1-Jan 31. \*Annual review and reporting policy will be discussed at the January 2020 Council meeting. Any changes will be posted on the website.

| **Milestone/Task** | **FY22** | **FY23** | **FY24** | **FY25** | **FY26** |
| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| **Milestone** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Task | C | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Milestone** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Task | C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Reporting** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \*Annual reports |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FY work plan  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Final report |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Deliverables** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peer reviewed paper |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Data posted online  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Milestone/Task** | **FY27** | **FY28** | **FY29** | **FY30** | **FY31** |
| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| **Milestone** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Task |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Milestone** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Task |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Reporting** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \*Annual reports |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FY work plan  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Final report |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Deliverables** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peer reviewed paper |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Data posted online  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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1. Budget
2. Budget Forms (Attach)

Please provide completed budget forms (Excel workbook). Please note that costs associated with international travel for meetings, symposia, or presentations will not be considered for funding. Costs associated with outreach or education should be included in the Program budget. Include a screen shot of the “Summary” worksheet (example below).



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1. Sources of Additional Funding

Fill out the summary table below (should match the table on page 2). Provide a narrative that Identifies non-EVOSTC funds or in-kind contributions used as cost-share for the work in this proposal. List the amount of funds, the source of funds, and the purpose for which the funds will be used. Do not include funds that are not directly and specifically related to the work being proposed in this proposal. Please attach documentation from additional project funding sources which confirms and describes matching funds, including date(s) the matching funds are/will be authorized.

Non-EVOSTC Funds to be used, please include source and amount per source:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **FY22** | **FY23** | **FY24** | **FY25** | **FY26** | **FY22-26 Total** |
|  |  |  |  |  |  |
| **FY27** | **FY28** | **FY29** | **FY30** | **FY31** | **FY27-31 Total** |
|  |  |  |  |  |  |
| ***FY22-31 Total*** |  |

Text

1. LITERATURE CITED

Provide literature cited in the proposal.

Text (Please note, this form uses Word Styles which you can find in the Home ribbon. This style is LitCit: EVOSTC which is indented to align with the heading numbering and includes a hanging indentation. To apply the appropriate style when copying and pasting text from another document, select the text and then click on LitCit: EVOSTC in the Style ribbon).

1. PROJECT PERSONNEL

The CV’s of all Principal Investigators and other senior personnel involved in the proposal must be provided. Each resume is limited to **two** consecutively numbered pages and must include the following information:

* A list of professional and academic credentials, mailing address, and other contact information (including e-mail address)
* A list of up to 10 of your most recent publications most closely related to the proposed project and up to five other significant publications. Do not include additional lists of publications, lectures, etc.
* A list of all persons (including their organizational affiliations) in alphabetical order with whom you have collaborated on a project or publication within the last four years. If there have been no collaborators, this should be indicated.

Text