



NC Space Grant – NC Sea Grant 2021-2022 Graduate Research Fellowship Request for Proposals



Overview

The joint North Carolina Space Grant – North Carolina Sea Grant Graduate Research Fellowship Program invites interdisciplinary proposals from across the state. The fellowship requires the use of data from vast archives and remote-sensing capabilities available through the National Aeronautics and Space Agency (NASA) and the National Oceanic and Atmospheric Administration (NOAA) to address a high-priority research need within North Carolina's nearshore environs, coastal areas, watersheds, or human activities in these areas (e.g. aquaculture). Successful proposals must adeptly utilize relevant measurement instruments and/or remote-sensing data sources from NASA, NOAA, or other sources that can include, but are not limited to, radiometers, spectroradiometers, satellite sensors, LIDAR, aerial imagery, and other data collected from airplanes, unmanned aerial vehicles, and/or uncrewed submersibles in the execution of the proposed work.

North Carolina Space Grant – North Carolina Sea Grant is accepting applications for the 2020-2021 academic year for a one-year Graduate Research Fellowship. Applicants must be a full-time, enrolled graduate student at an accredited college or university within North Carolina and citizen of the United States. The proposed research must be supervised by a faculty mentor. The research activity should continue for the duration of the Fellowship period. The start date is flexible but must be after June 1, 2021. All work must be completed by May 31, 2022. Fellows are required to present their research findings at a meeting, conference, or other formal gathering of professional organization(s), association(s), etc. among peer researchers, policymakers, or another relevant audience.

Proposed work should be relatable to **both** Space Grant's strategic plan (ncspacegrant.ncsu.edu/about-space-grant/mission-vision/), and Sea Grant's Strategic Plan (ncseagrant.ncsu.edu/about-us/our-vision/), as well as both organization's commitment to diversity, equity, and inclusion (<https://ncseagrant.ncsu.edu/about-us/diversity-equity-and-inclusion/> and <https://ncspacegrant.ncsu.edu/about-space-grant/diversity-equity-inclusion/>). We **strongly encourage** proposals from graduate students at HBCUs and MSIs and/or from traditionally underserved and underrepresented communities, as well as from graduate students who can demonstrate how their work and related outreach will benefit underserved and underrepresented communities.

This is a competitive fellowship program supported by North Carolina Space Grant in partnership with NASA, North Carolina Sea Grant in partnership with NOAA, and the State of North Carolina. Awards are based on scientific merit, adherence to the instructions of this RFP, availability of federal funds, and in recognition of high academic achievement and project results promise.



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Fellowship Amount \$10,000 per award

Number of Fellowships One fellowship is anticipated for 2021-2022, subject to sufficient funding and quality of the received applications.

Duration The research activity should be continuous over the course of a Fellowship. The start date is flexible but must be after June 1, 2021. All work must be completed by May 31, 2022.

Eligibility The Graduate Research Fellowship applicant must be:

- A permanent United States citizen.
- Enrolled full time in an advanced graduate degree program of study at an accredited college or university in the State of North Carolina.
- Conducting a faculty-mentored research project relevant to this call for proposals.
- In good academic standing with a GPA of 3.0 (out of 4.0) or higher.

Interested students must complete an online application. Undergraduate students may not apply for funding, but research projects that include undergraduate participation are encouraged. Please read all program guidelines, including applicant eligibility and reporting requirements, before submitting your application. The application must be submitted online and all information must be complete or the application will not be reviewed. The key components of the application are discussed in more detail below.

Application To Apply for a NC Space Grant – NC Sea Grant Graduate Research Fellowship, click [HERE](#).

Proposals should be uploaded as one PDF file via the North Carolina Space Grant application portal (click new user registration button to begin the application). Proposals must describe the research project, with items 1 to 5 below totaling no more than four pages. Item 7 should be no more than two pages. The proposal should be in 12-point, Times New Roman font, with 1-inch margins. Incomplete and late applications will not be accepted.

Proposals must contain the following sections:

1. **Title Page:** Include student and major professor contact information.
2. **Description of Proposed Research Project:** A statement written by the student in consultation with a faculty advisor should describe: (1) The key elements of the proposed research and plan of study, including stated research question/s and data instruments and/or sources to be used; (2) What the student intends to accomplish; and (3) Clear description of how the proposed work has applications of interest to NASA/NC Space Grant, NOAA/NC Sea Grant and the State of North Carolina.
3. **Materials and Methods**



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4. Clearly defined **Tasks** and a **Timeline** to complete the tasks. This item and the three previous should add up to no more than four pages in total.
5. **A Plan to Present Findings:** (1) To present research methodology and/or research findings at a meeting, conference, or other formal gathering of professional organization(s), association(s), etc. among peer researchers, policymakers, or another relevant audience (presentation of research at the 2021 NC Space Symposium is required); and (2) For purposes of public outreach (e.g., an article in *Coastwatch* magazine, a presentation at a maritime center or planetarium, or presentations to audiences that may include professionals, precollege students, etc).
6. **Data Management Plan:** In addition to the above application, to comply with NOAA's data and publication sharing directive for grants and contracts, version 3.0 (<https://nosc.noaa.gov/EDMC/PD.DSP.php>), each applicant must develop and submit with their application a data management plan (DMP). The DMP does not count toward the four-page limit, described above. Please review the guidance found in the link in the "Application" section above, as well as [Attachment A](#), to assist you in preparing your plan. Plans will be included as part of the proposal evaluation process. Plans should be no more than two pages and should include: descriptions of the types of environmental data and information expected to be created during the course of the project; the tentative date by which data will be shared; the standards to be used for data/metadata format and content; methods for providing data access; approximate total volume of data to be collected; and prior experience in making such data accessible. If your project is not expected to develop any environmental data, then your DMP may simply include the declaration: "This proposal is not expected to generate environmental data. Therefore, a Data Management Plan is not required."
7. **Current student CV (limited to two pages)**
8. **Letter of support** from the applicant's major professor. Up to two additional letters of support from end-users and other appropriate parties may be included if they enhance the application.

The proposal can contain a **Literature Cited** section, if needed, which is NOT included in the four-page limit.

Deadline Application materials must be received **by 5 p.m. Friday, March 12, 2021**.

Review Process A proposal review panel will include the NC Sea and Space Grant Core Management Team and other in-state experts as needed. Proposals will be ranked based on their relevance to the identified focus areas, the quality of the proposed work, and adherence to the instructions provided in this request for proposals including the need for a data management plan.



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Award Funding

The successful applicant will be notified no later than May 15, 2021. The fellowship award will be distributed as a stipend, with funding dispersed in three installments over the course of the period of performance.

Products

General Requirements: Fellows are required to:

- Provide a photo and biographical information upon selection;
- Agree to abide by all reporting requests from North Carolina Sea Grant and North Carolina Space Grant;

Research Outcomes Products: Fellows are required to:

- Submit a Final Research Report that shall include a detailed summary of research results and an award impact statement. This information will be shared for review and use within NC Space Grant and/or NC Sea Grant;
- Present their findings at a meeting, conference, or other formal gathering of professional organization(s), association(s), etc. among peer researchers, policy-makers, or another relevant audience; and
- Respond to academic and employment follow-up surveys administered as required by the federal government.

Communications Products: Fellows are required to:

- Work with the NC Sea Grant and NC Space Grant communications team to develop and implement a plan to share their research experiences, including but not exclusively on social media, in print and on the NC Sea Grant and NC Space Grant web properties.
- Translate the results of their project into in a public forum or educational setting. Presentations that encourage interest in the research topic among the general public, policy-makers, and/or K-12 school students are encouraged; and
- Translate the results of their project into a blog post or article for a publication in media outlets such as *Coastwatch* magazine and the Space Grant news webpage.

Contact Information

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