NOAA COOPERATIVE SCIENCE CENTER IN ATMOSPHERIC SCIENCES & METEOROLOGY
EDUCATION RESEARCH IMPACT

Experiential Training Summer Program for Rising Sophomores (ETSP)

Overview

The Experiential Training Summer Program will provide rising sophomores with virtual summer experiential training in NOAA mission-relevant research. Students will work with NCAS-M researchers in collaboration with a NOAA mentor on an approved NOAA mission relevant project during the summer. Researchers will submit and get approval for the proposed NOAA mission-relevant research project. Student travel and housing expenses will be covered. ETSP students will receive a $5,000 stipend ($4,500 during the summer and an additional $500 after proof of application to a NOAA scholarship program (e.g., a) Ernest F. Hollings Undergraduate Scholarship; b) Educational Partnership Program with Minority Serving Institutions Undergraduate Program). Students will also receive a housing allowance of $2,500.

NCAS-M Experiential Training Summer Program (ETSP)

Who: 10 rising sophomores from NCAS-M institutions

Student Stipend & Housing Allowance: $5,000 stipend ($4,500 during summer and an additional $500 after proof of application to NOAA scholarship programs); $2,500 housing allowance, if applicable.

Program Length: 8-week NOAA mission-relevant research and training program (to include professional/career development)

Date: June 1, 2020 to July 24, 2020

Location: NCAS-M Institutions

Requirements for ETSP: **Student**: Rising sophomore, minimum 3.0 GPA, official transcript, U.S. citizen, resume, one letter of recommendation (sponsoring institution can require more), and student must apply to Ernest F. Hollings Undergraduate Scholarship and/or EPP/MSI Undergraduate Scholarship in fall 2020. **Faculty**: Research proposal (NCAS-M research mentor must submit and get approval for a NOAA-mission relevant research project that students will engage in over the summer).

ETSP Program Activities Overview: The ETSP program is 8 weeks long. During Weeks 1 to 7, student will engage in NOAA mission-relevant research and training at the NCAS-M institution. During Week 8, student will engage in a virtual poster session and virtual career/professional development workshop.

For additional information, please contact: Jo-Anne Manswell Butty, Ph.D., Education Expert, NCAS-M
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June 1 – July 24, 2020
Program Elements

The virtual ETSP training opportunity will provide students with an opportunity to attain NCAS-M core competencies by engaging in NOAA mission relevant research. **Microsoft Teams** will be used to present information during the virtual experience via discussions, presentations, and individual and group activities. **Timely and full participation** are expected.

1. All students will participate in a minimum of eight hours per week in the following four joint activities:
   i. 1 hour weekly check-in call – All ETSP interns and Education Expert (NCAS-M staff and faculty mentors are optional)
   ii. 5 hours weekly technical skill course on geospatial analysis. Three online hour-long lectures will occur on M, W, Fr with 1-hour recitations on T & Th. This course will focus on R studio and geospatial analysis related to NOAA mission research.
   iii. 1 hour weekly professionalization course (technical presentations) – (e.g., ***a)*** NOAA 101, ***b)*** PowerPoint and other ways to Construct and Format a Research Poster, ***c)*** Prezi vs PowerPoint – Selecting Your Medium and Speaking on Camera, ***d)*** Elevator Speech/Perfecting the Elevator Speech, ***e)*** NOAA Mission Relevant Communication, ***f)*** Stage Presence and the Basics of Oral Technical Presentations, and ***g)*** The Role of Human Dimensions in NOAA Mission-Relevant Research)
   iv. 1 hour lightly-moderated student session. This session is meant to be a community-building activity led by alumni of NCAS-M programs. Ice-breakers will be used to connect students to each other to address the loss of social engagement due to the changes from place-based instruction.

2. All students will participate in a 30-minute progress update with the institutional research advisor, the NOAA collaborator(s) every other week. Education expert may sit in. This would be each individual student and not the full group. The purpose would be to check progress against the work plan, identify deeper issues, and obtain feedback on the student from the mentors.

3. The online form for mid-term and end-of-program evaluation for interns and mentors that must be completed at the end of week 4 and at the end of week 8. These evaluations are conducted to assess research progress and needs.

4. All students will generate video abstracts – a 2-minute introduction of themselves, their research project and its objectives, and a sense of the anticipated or tangible outcomes. The students must include why their project is of relevance to the NOAA community and the human/societal dimensions of their work. These abstracts will be posted to YouTube after quality control review and can serve as a professional hallmark in their early careers.

5. A Virtual Research Colloquium that will showcase video abstracts and virtual poster presentations will be conducted at the culmination of the program, during Week 8.

Assessment strategies will include a) group review of products and student performance in technical skills course and b) rubric used for core competency attainment at Virtual Research Colloquium.

Important: Contingency plans must be put in place for the **NCAS-M Experiential Training Summer Program (ETSP)** scheduled for June 1 – July 24, 2020. ETSP interns are based at their institutions and required to adhere to COVID-19 policies at their institution. Faculty mentors are required to include contingency plans in their research proposals enabling students to work on their projects remotely.

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