



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

NOAA Experiential Research and Training Opportunity -- NERTO

Jo-Anne Manswell Butty, PhD
Education Expert

Charles Ichoku, PhD
Distinguished Scientist



Cohort Requirements

Undergraduate	Graduate
NOAA-mission Research and Training Summer Internship	NOAA Experiential Research and Training Opportunity (NERTO)
NOAA Undergraduate Scholarships Workshop	Research-related Travel and Professional Meetings
Center-wide Professional Development Activities	Center-wide Professional Development Activities
Student Development Plan (SDP)	Student Development Plan (SDP)
NCAS-M Faculty Advisor and NOAA Mentor	NCAS-M Faculty Advisor and NOAA Mentor

NOAA Experiential Research and Training Opportunity (NERTO)

What: NOAA mission experience that integrates academics with practical NOAA mission-relevant experiential training.

Who: NCAS-M Graduate Students

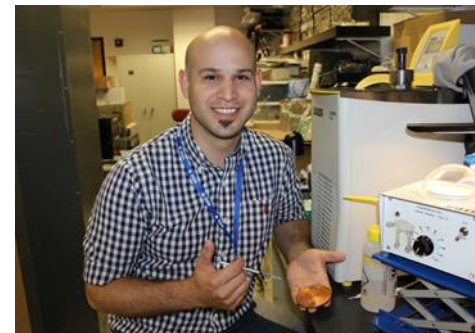
When: During the two-year fellowship (preferably during the summer of the first year)

Where: NOAA facility (or virtually)

How: Guidance of a full-time NOAA employee, 40 hours a week, minimum of twelve weeks.



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More about NERTO...

- NOAA scientific or technical project with a NOAA mentor that is:
 - ✓ Discrete
 - ✓ Can be successfully completed in 12 weeks
 - ✓ Occurs at a NOAA facility: office, lab, vessel (or virtually)

NERTO - NOAA Experiential Research and Training Opportunity



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Value of NERTO for NCAS-M Student

- Learn technical skills and understand NOAA's organizational culture
- Apply academic training to real world problems and challenges
- Create networks for future academic and career success



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Value of NERTO to Hosting Office

- Access to pool of new talent to advance mission critical research and operations
- Introduce new ideas or research questions and gain publications from internship projects
- Opportunity to work with potential candidates for future workforce

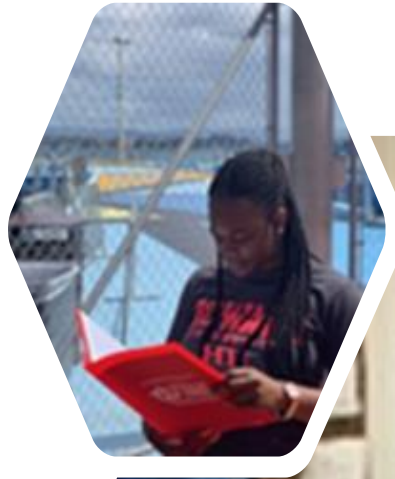


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Hosting a NOAA EPP Intern

- Mentor must be a full-time federal NOAA employee
- NOAA host office provides NOAA badge and access to facility, workspace, and network
- NCAS-M award provides student stipends and funds for research or travel
- Project must be entered online using the Student Scholarship Internship Opportunities (SSIO) system



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Steps to Complete the NERTO Application

1. Current NERTO internship opportunities can be found in the SSIO
2. New opportunities can be written and uploaded to the SSIO
3. Students submit application package (cover letter, resume, and unofficial transcript) to jmanswell-butty@howard.edu
4. NCAS-M submits application package to NOAA Office of Education (OEd)
5. NOAA OEd submits application package to NOAA Mentor
6. NOAA mentor submits offer letter to NOAA OEd
7. NOAA OEd sends offer letter to NCAS-M
8. Student submits acceptance letter to NCAS-M
9. Student's acceptance letter along with Center Director's letter sent to NOAA OEd
10. NOAA OEd forwards acceptance letter to NOAA Mentor
11. NOAA Mentor submits 12-week Workplan to NOAA OEd
12. NOAA OEd approves Workplan
13. NERTO begins







NERTO At-A-Glance

1. Discrete NOAA Scientific,
Engineering, Technical, & Policy
Project

2. Student &
NCAS-M
Academic Advisor
Project Selection

3. Engagement
with NOAA
Host Mentor

4. Established
Project Terms:
Acceptance

5. NOAA Hosting
Office and Mentor
Collaborate: Host
Student at Site

6. NOAA Mentorship
+ Student
Performance:
Successful Products
Impacts



NERTO – Important Information for Students

You are ...

- NOAA EPP/MSI-supported;
- aspiring professionals [bringing value to the hosting NOAA office/lab](#) and gaining knowledge and skills in NOAA mission areas;
- to [avail yourselves of NCAS-M professional development opportunities](#) such as professional correspondence development, resume writing, planning for manuscript development, etc. before, during, and after the EPP/MSI NERTO internship;
- [supported in the EPP/MSI NERTO internship and as an NCAS-M Fellow](#) will continue to be supported, as allowable with award funds;
- to be familiar with the [NERTO resources](#) accessible online;
- aware that the [NERTO period is a minimum of 12 contiguous weeks](#) and a maximum duration of 12 months; and
- aware that NOAA EPP/MSI has the [highest expectations](#) for the investment in each student and their successful NERTO internship.



NERTO Must-Know Information

- Start early and set deadlines
- Collaboration (student, faculty advisor, NOAA mentor)
- Student communication is always through NCAS-M
- NCAS-M NERTO points of contact:
 - Jo-Anne Manswell Butty, PhD, Education Expert
jmanswell-buty@howard.edu
 - Charles Ichoku, PhD, Distinguished Scientist
charles.ichoku@howard.edu



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Questions