



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

NCAS-M II

FELLOWS ORIENTATION MEETING

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PHD

EDUCATION EXPERT

SEPTEMBER 19, 2023



Overview

- A. Welcome, Purpose, Introductions**
- B. Requirements, Expectations, Policies, and Procedures**
 - a. Offer Letter, Student Contract, Contact Form, Likeness & Profile Release Form to NOAA, and Other Required Documents**
 - b. Individual Student Development Plan (SDP)**
 - c. NERTO / NETSI (graduate students and undergraduate students)**
 - d. NCAS-M II Trainings and Professional Development**
 - i. NOAA Skills and Competencies Training at NCAS-M II**
 - ii. NCAS-M II Interdisciplinary Seminar Series**
 - iii. CSC Education Leads Webinar Series**
 - iv. NCAS-M Center-Wide Cohort Experience**
- C. Website, Social Media**
- D. Center Calendar**
- E. External Evaluation**
- F. Q & A**



NOAA COOPERATIVE SCIENCE
CENTER IN ATMOSPHERIC
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EDUCATION RESEARCH IMPACT



NOAA Cooperative Science Center in Atmospheric Sciences and Meteorology II (NCAS-M II)

Mission: Increase the number of workforce ready graduates from underrepresented communities in NOAA-related sciences, esp. atmospheric sciences and meteorology

Cooperative Science Center

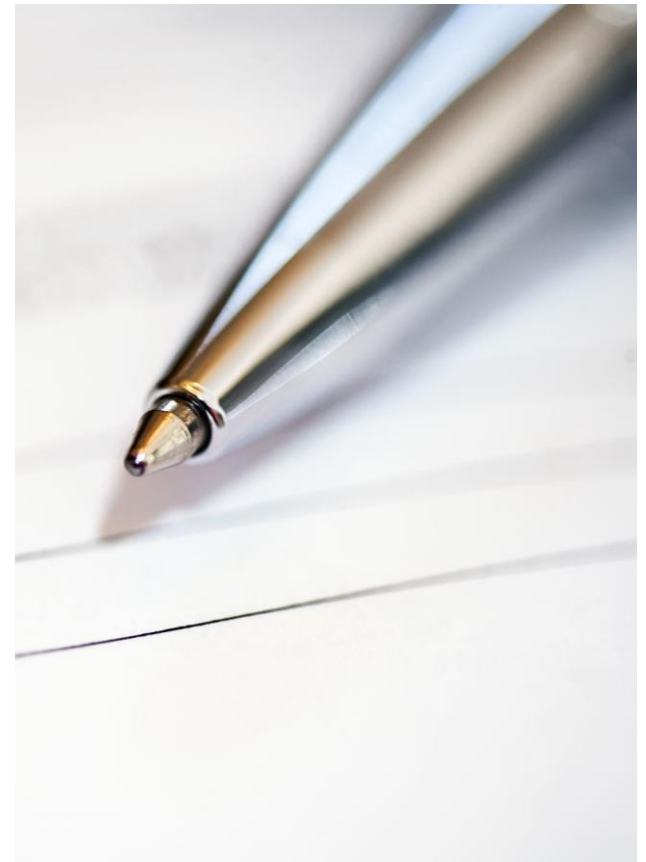
Who: 9 partner institutions, undergraduate and graduate students

Partner Institutions:

1. Howard University (Lead)
2. Jackson State University
3. Pennsylvania State University
4. San Jose State University
5. University at Albany, SUNY
6. University of Puerto Rico-Mayaguez
7. University of Texas, El Paso
8. University of Maryland Baltimore County
9. University of Maryland College Park

NCAS-M II Forms

- Offer Letter
- Student Contract (aka Letter of Understanding)
- Contact Form
- NCAS-M Likeness & Profile Release Form to NOAA
- Other Required Documents



NCAS-M II Requirements

Fellowship requirements:

- ✓ Full-time status as an undergraduate or graduate student
- ✓ Enrolled at one of the 9 NCAS-M II partner institutions
- ✓ U.S. citizenship
- ✓ Minimum 3.0 GPA
- ✓ Major in a NOAA mission discipline in Atmospheric Sciences and Meteorology and/or social, behavioral, or economic (SBE) sciences

- Fellowship recipients must complete at least 24 semester hours (36 quarter hours) in **meteorology/atmospheric science** to include courses in **atmospheric dynamics, synoptic/mesoscale, physical meteorology, remote sensing/ instrumentation, and differential equations.**
- Graduate students must complete a 12-week graduate internship at a NOAA facility with a NOAA employee.
- Undergraduate students are highly encouraged to complete a 10-week summer internship at a NOAA facility under the direction of a NOAA mentor.

AA COOPERATIVE CENTER IN ATMOSPHERIC SCIENCES & METEOROLOGICAL EDUCATION RESEARCH



Education & Training – Major Activities

1. Individual Student Development Plan (SDP)
2. NOAA Mission-Aligned Internships
 1. NOAA Experiential Research and Training Opportunity (NERTO) – Graduate Students
 2. NOAA Experiential Training Summer Internship (NETSI) – Undergraduate Students
3. NOAA Skills and Competencies Training at NCAS-M II
4. Annual Center-wide Cohort Experience and Other Experiences



Individual Student Development Plan (SDP)

SDP – online form completed 4 times a year

SDP notes and tracks educational outcomes and skills/competencies attained:

- research internships at NOAA facilities
- presentations at conferences
- professional development trainings
- NCAS-M core competency attainment





NOAA Mission Internships

NETSI - UNDERGRADUATE

- Strongly encouraged
- NOAA mentor & faculty advisor
- 10-week summer internship
- NOAA mission research at NOAA facility
- Present at NOAA OEd UG Symposium
- Direct Hire Certificate of Eligibility

NERTO - GRADUATE

- Required
- NOAA mentor & faculty advisor
- 12-week internship
- NOAA mission research at NOAA facility
- Present at NOAA Science Seminar
- Direct Hire Certificate of Eligibility

NOAA Experiential Training Summer Internship (NETSI)
NOAA Experiential Research & Training Opportunity (NERTO)



Prior to NERTO

1. NERTO orientation for graduate students & NCAS -M II faculty advisor

2. DS and/or NCAS -M II faculty advisor (FA) connect with NOAA mentor

3. Education Expert (EE) and Distinguished Scientist (DS) review SSIO online system for graduate student opportunities

4. If no opportunities found in #3, new opportunity written and uploaded to SSIO by NOAA mentor

5. Meeting scheduled with student, FA, EE, DS, and NOAA mentor to discuss NERTO process and opportunity

6. Student submits application package to EE

7. NCAS-M II submits application package to NOAA OEd

8. NOAA OEd submits application package to NOAA mentor

9. NOAA mentor accepts and submits offer letter to NOAA OEd

10. NOAA OEd sends offer letter to NCAS -M II

11. Student submits acceptance letter to NCAS -M II

12. Student's acceptance letter and Center Director's letter sent to NOAA OEd

13. NOAA OEd forwards acceptance letter to NOAA Mentor

14. NOAA mentor submits 12 - week Workplan to NOAA OEd

15. EE, DS, FA and NOAA mentor meet with student to discuss NERTO roles and responsibilities

During NERTO

16. NERTO begins

17. Weekly check-ins during NERTO (students); biweekly check-ins during NERTO (NOAA mentor); monthly check-in with all students (group)

After NERTO

18. NERTO ends

19. Student submits final performance report to NCAS -M 14 days after end of NERTO

20. Student presents research at One NOAA Science Seminar



NOAA Skills and Competencies Training at NCAS-M II

NOAA Skills and Competencies Training

- NOAA Subject Matter Experts
- Monthly Trainings
- NOAA Mission-Aligned Topics
- Policy and Practice





Annual Center-Wide Cohort Experience and Other Experiences

Annual Center-Wide Cohort Experience (ACE)

- 3-day Center-wide in-person event
- Cohorts and leverage students participate
- Held at Howard University
- Involves speakers from NOAA, Professional Development consultants, and skill training

Other Experiences

- Interdisciplinary Research Seminar Series
- CSC Education Seminar Series
- Professional Meetings (e.g., AMS Annual Meeting)





NCAS-M Core Competencies & Levels

NCAS-M II CORE COMPETENCIES

1. Ability to **conduct translatable data science and social competencies to communicate impacts** of NOAA and NWS mission services and products
2. Ability to **experience and conduct R&D projects from end to end**
3. Ability to **identify, prepare, analyze, interpret, and convey impacts to decision makers** and the public

LEVELS OF COMPETENCE

1=Awareness

2=Understanding of fundamentals and some initial practical application

3=Solid conceptual understanding and some practical application

4=Significant conceptual knowledge and practical experience in performing a competency to a consistently high standard

5=Extensive knowledge, refined skill, and prolonged experience (minimum of 3 years) in performing the defined competency at the highest standard

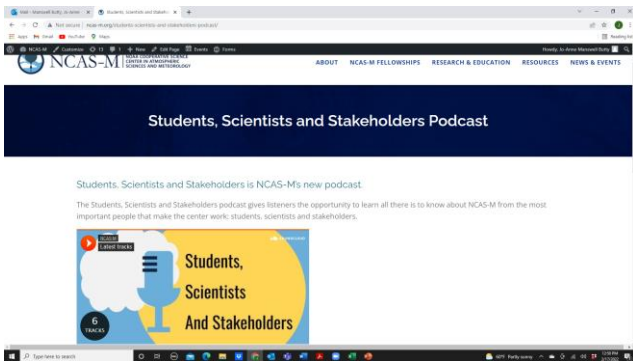


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WEB

<http://ncas-m.org>

- Online Fellowship Application
- NCAS-M II Fellowship
- Research and Education
- Resources
- News and Events
- Forms



Microsoft Teams – Student Platform



STUDENT INFORMATION
HUB



STUDENT FOLDERS

	Month	Day	Activities
Fall 2023	Sept	7	•NCAS-M II Advisory Board Mtg
		14	•NOAA Climate Change Seminar Series – Hybrid (PIs & students strongly encouraged to attend)
		15	•HU Student Welcome Back Event at the Beltsville Campus - Fellows in the Metro area
		19	•NOAA Science Seminar (2-3 pm ET) (PIs & students strongly encouraged to attend)
		19	• Center-wide Student Orientation (4-5 pm ET) - Virtual (Req)
		20	• NCAS-M II Interdisciplinary Seminar Series (4-5 pm ET) - Virtual (Req)
		25-26	•Site Visit to Jackson State University
		27	• NOAA CSC Education Seminar Series (12:30-2:00 pm ET) - Virtual (Req)
		27-30	• National Association of Black Geoscientists (NABG) Annual Technical Conference , Washington, DC
		29	•Student Development Plan (SDP) Planning Report Due (Req)
Oct		11	• NOAA CSC Education Seminar Series (12:30-2:00 pm ET) - Virtual (Req)
		11-15	• HBCU Climate Change Conference , New Orleans, LA
		12	•NOAA Climate Change Seminar Series – Hybrid (PIs & students strongly encouraged to attend)
		18	• NCAS-M II Interdisciplinary Seminar Series (4-5 pm ET) - Virtual (Req)
		26	• NOAA CSC Education Seminar Series (12:30-2:00 pm ET) - Virtual (Req)
		26-28	• SACNAS National Diversity in Stem Conference , Portland, OR
Nov		9	•NOAA Climate Change Seminar Series – Hybrid (PIs & students strongly encouraged to attend)
		15	• NCAS-M II Interdisciplinary Seminar Series (4-5 pm ET) - Virtual (Req)
		16	• NOAA CSC Education Seminar Series (12:30-2:00 pm ET) - Virtual (Req)
		17	•HU Chat and Chew (12 pm ET) - Fellows in the Metro area
Dec		7	•NOAA Climate Change Seminar Series – Hybrid (PIs & students strongly encouraged to attend)
		11-15	• American Geophysical Union (AGU) Fall Meeting , San Francisco, CA
		TBD	• NCAS-M II PD Webinar Series – Social Science - Virtual (Req)

NCAS-M II Education and Training Calendar – Fall 2023

Very Important Reminders!!

Funding:

NCAS-M II students are funded by the **NOAA Office of Education, Educational Partnership Program with Minority Serving Institutions** (NOAA EPP/MSI)

Acknowledgement Statement:

Along with the **NCAS-M, Institution, and NOAA logos**, the following acknowledgment of NOAA EPP/MSI support must appear in the publication of any material, whether copyrighted or not, and any posters or oral presentations which is based upon or developed under the NCAS-M II award:

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Very Important Reminders!!

Signature:

Be sure to **identify yourself as an NCAS-M II Fellow supported by NOAA EPP/MSI** in all communications and/or correspondences (e.g., in your school email signature, LinkedIn, business cards, resume, ...)

NCAS-M II Faculty Advisor:

Communicate with your NCAS-M II Faculty Advisor if you have any NCAS-M II questions. Be sure to **get approval** from your NCAS-M II advisor prior to a presentation or publication. Also, copy your advisor on any NCAS-M II correspondence.



Contact Information

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The NOAA Cooperative Science Center in Atmospheric Sciences and Meteorology II (NCAS-M II) is funded by NOAA Educational Partnership Program with Minority Serving Institutions (NOAA EPP/MSI) Cooperative Agreement #NA22SEC4810015.

Questions

