



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

# NCAS-M II

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## STUDENT ORIENTATION/FORUM

JO-ANNE MANSWELL BUTTY,  
PHD

EDUCATION EXPERT

JANUARY 2024



# Overview

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- A. Welcome**
- B. New Fellows**
- C. NCAS-M II Activities**
- D. Center Calendar**
- E. Key Reminders**
- F. Q & A**



**NOAA COOPERATIVE SCIENCE  
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EDUCATION RESEARCH IMPACT

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

- **Funded:** NOAA's Educational Partnership Program with Minority Serving Institutions
- **Mission:** To increase the number of workforce ready graduates from underrepresented communities in NOAA-related sciences
- **Cooperative Science Center**
- **8 Partner Institutions**

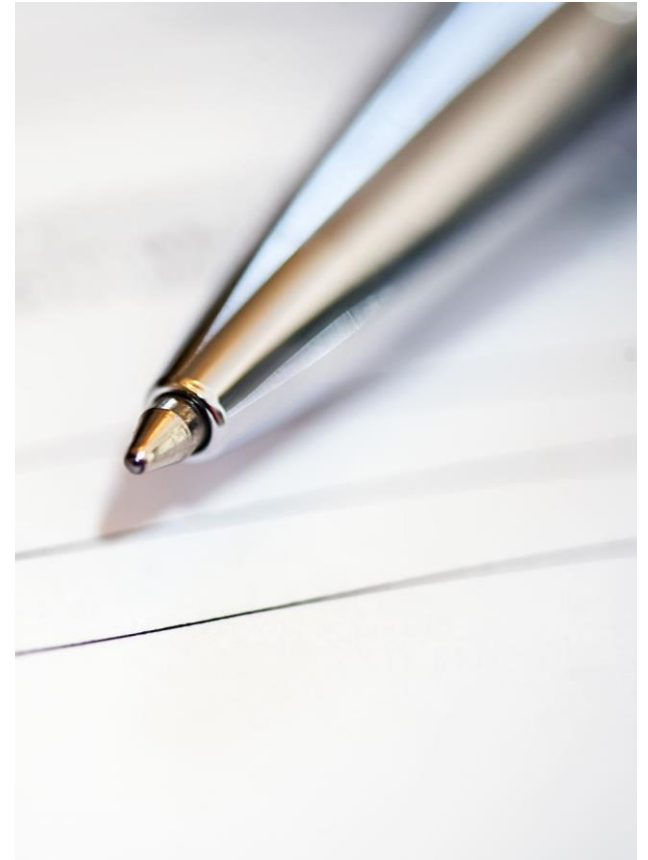
## **Partner Institutions:**

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

# NCAS-M II Documents

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



# NCAS-M II 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 (each semester)
- ✓ Major in a NOAA mission discipline in Atmospheric Sciences and Meteorology and/or social, behavioral, or economic (SBE) sciences

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- 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.**
- **SBE Students:** Complete coursework and attend enrichment/training/professional development activities as outlined for the fellowship.

# 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. EPP/MSI CSC Undergraduate Internship-at-NOAA (UG Internship-at-NOAA) – 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

## UG INTERNSHIP-AT-NOAA - UNDERGRADUATE

- Strongly encouraged
- NOAA mentor & faculty advisor
- 10-week summer internship
- NOAA mission research at NOAA facility
- Present at the NOAA Education and Research 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

**EPP/MSI CSC Undergraduate Internship-at-NOAA (UG Internship-at-NOAA)  
NOAA Experiential Research & Training Opportunity (NERTO)**





# 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





# NCAS-M Core Competencies & Levels

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## 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



# Annual Center-Wide Cohort Experience and Other Experiences

## Annual Center-Wide Cohort Experience (ACE)

- 2 or 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 Experts Seminar Series
- Professional Meetings (e.g., AMS Annual Meeting)



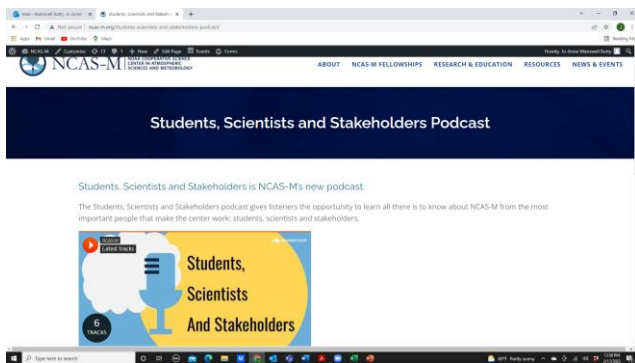


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# WEB

<http://ncas-m.org>

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



# Very Important Reminders!!

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## **Read Emails:**

Please read emails sent from NCAS-M II as they provide important updates, reminders, and information about upcoming events. If emails requires action, please do so by the due date.

## **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:

***This research is based on work supported by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Educational Partnership Program under Agreement No. NA22SEC4810015.***

# Very Important Reminders!!

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## **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 Cohort 2 Fellow supported by NOAA EPP/MSI**

## **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

**Jo-Anne Manswell Butty, Ph.D.**

Education Expert

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