

NCAS-M Bio Template

Directions: Please complete the following bio by inserting the information in bold.

First name Last name is earning a **PhD, MS, or BA/BS** in the department of **Department Name** at **Name of Your Academic Institution** and is a Cohort-**1 or 2** NCAS-M Fellow. He/She is interested in the NCAS-M focus area -- **Select one (1) focus area from the list below** in support of the NCAS-M theme: **Select one (1) theme from the list below**. His/Her recent research experience involves **brief statement describing research collaboration and if this was a NOAA collaboration please indicate the collaborating staff or unit.**

NCAS-M Focus Areas

The five (5) research focus areas of NCAS-M (pick one):

Focus Area 1: Process-level Understanding and Enhanced Modeling Capabilities (only associated with theme 1, 2, or 3)

Focus Area 2: Improved Quantification of Forecast Uncertainty (only associated with theme 1, 2, or 3)

Focus Area 3: Advancing the Development of High Resolution Models (only associated with theme 1, 2, or 3)

Focus Area 4: Integrated Social Science (only associated with theme 1 or 3)

Focus Area 5: Effective Communication of Climate and Weather Risk (only associated with theme 1 or 3)

NCAS-M Themes

The three research themes associated with NCAS-M (pick one):

Theme 1: Interdisciplinary scientific research for building resilient communities against weather extremes. Under this theme, ASM faculty and students will perform timely and usable research designed to support the following WRN Roadmap objectives: “reduced loss of life, property, and disruption from high-impact events; and improved freshwater resource management.”

Theme 2: Innovative observations for advancing the analysis and prediction of weather, climate, and atmospheric chemistry. Within this theme, the ASM will support research and applications that take greater advantage of novel and traditional environmental observations particularly those that close observational gaps in NOAA operational network that limit WRN forecast metrics.

Theme 3: Interdisciplinary research in support of building healthy communities. The ASM will pursue collaborative and interdisciplinary research to integrate atmospheric and meteorological sciences most heavily with SBE as the NOAA goals for improving high-resolution ozone, smoke, dust, and other particulate matter forecasts; data on extreme temperatures; and expanded predictive capabilities that include water quality will directly involve assessments and the development of effective means of communicating the risks of these hazards to vulnerable communities.