NORTH CAROLINA CLIMATE OFFICE

2025 ECONet Summer Undergraduate Internship Program

Job Title: ECONet Summer Undergraduate Intern

Pay: $16/hour, 29 hours/week

Anticipated Start Date: May 12, 2025
Anticipated End Date: August 8, 2025

Schedule: Monday through Friday on an hourly basis (i.e., 9am - 5pm), and off hours as needed. Work hours are flexible and may vary depending on the fieldwork schedule and applicant's availability.

Location
The position is based at the State Climate Office of North Carolina, located on Centennial Campus in Raleigh, NC. Applicants must be currently enrolled as full-time undergraduate students at NC State University. Rising summer 2025 sophomores, juniors, and seniors are encouraged to apply. The position is flexible to partial remote work for some research tasks, but the student must regularly come to the office as outlined below.

About the State Climate Office of North Carolina
The State Climate Office of North Carolina (SCO, https://climate.ncsu.edu/) is a public service center at NC State University that is dedicated to serving the climate needs of North Carolinians through education, research, applications, and monitoring. A team of staff scientists at the SCO manages and maintains a network of 45 weather stations located across the state. This weather station network is known as the Environment and Climate Observing Network (ECONet, https://econet.climate.ncsu.edu/).

Justice, equity, diversity, inclusion, and accessibility are critical to the success of the SCO and NC State University. We are committed to working alongside the applicant to ensure they feel safe and supported in their work. The selected applicant(s) will be expected to foster an environment that is supportive and welcoming of all groups and perspectives. We especially encourage women, members of underrepresented groups, and persons with disabilities to apply. Safety in the field and office is the highest priority for SCO staff. The physical demands of this position are described below and must be met to successfully perform the basic essential functions of the ECONet summer undergraduate internship. We are committed to determining

and supporting reasonable accommodations as needed to meet the physical demands of this position.

NC State University is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, gender identity, age, sexual orientation, genetic information, status as an individual with a disability, or status as a protected veteran.

About this Position

The ECONet team is looking to hire an enthusiastic NC State University undergraduate student to support ECONet field maintenance and research in the summer of 2025. Those interested in fieldwork, research, and learning more about weather and climate instrumentation, monitoring, and data-driven weather and climate applications are encouraged to apply. Fieldwork will be conducted in-person at ECONet weather stations located across North Carolina. Additional maintenance and a portion of the independent research tasks will be conducted in the office under the supervision of SCO staff. Some of the independent research can be done remotely. As an ECONet summer undergraduate intern, you will learn how to maintain and troubleshoot research-grade weather stations and how to conduct standard data quality control checks on weather sensors and associated data. You will also conduct an independent ECONet-relevant research project, and present your findings at the end of the summer. As an ECONet summer undergraduate intern, you will have the opportunity to help us improve data quality control routines, increase public engagement and accessibility of ECONet data, and improve the accessibility of data products for all North Carolinians. You will also share your independent research findings with us at the end of the summer so SCO staff, the scientific community, and the public may benefit from your work.

Required Experience and Skills

- Currently enrolled as a full-time, undergraduate student at NC State University (Rising sophomores, juniors, and seniors are encouraged to apply)
- The major of study at NC State University is relevant to this position. Students in the following majors are encouraged to apply: atmospheric science; marine science; earth science; forest management; natural resources management; environmental science; environmental technology and management; parks, recreation, and tourism management; fisheries, wildlife, and conservation biology; environmental engineering; civil engineering; biological engineering; biological and agricultural engineering technology; biological sciences; geology; chemistry; physics; statistics; zoology; applied mathematics; agronomy; agricultural science; crop and soil sciences; horticultural science; plant biology; agroecology and sustainable food systems; applied ecology; electrical engineering; mechanical engineering; computer engineering; computer science
- Must be available to work from May 2025 to August 2025
- Attentive to detail
- Excellent interpersonal and (oral/written) communication skills
- Ability to manage time and complete tasks individually

- Have a valid driver's license. A state vehicle will be provided for fieldwork purposes; a personal vehicle is not required.

Other *Not-Required* Responsibilities and Experience (*Please consider applying even if you don't meet these*)

- Familiarity with conducting data analysis (in Excel, R, Python, or GIS, for example)

Key Responsibilities

- Support SCO staff as they conduct fieldwork to maintain and troubleshoot ECONet weather stations across the state
- Perform weekly data quality control procedures on weather station sensor data
- Conduct an independent research project
- Share independent research findings with SCO staff and/or at the NC State University Undergraduate Research Symposium at the end of summer in oral presentation and written summary formats

Physical Demands of this Position

- Communicating in vocal and written forms to individuals and groups
- Move across uneven and sloping ground and unpaved surfaces at field sites
- We rely on strict national health standards to limit fieldwork when it's not safe (e.g., hot conditions and heavy rainfall). Fieldwork will take place outdoors and may occur at temperatures and conditions outside the range of an office environment.
- Transport weather station maintenance equipment to and from the fieldwork vehicle and to and from the vehicle and office
- Lift and move weather station equipment up to 50 pounds
- Visual and auditory inspection of field sites to detect and troubleshoot ECONet station issues
- Operate a state vehicle to and from field sites

How to Apply? To apply, please email your resume, a cover letter, and contact information for 2 references to spheuser@ncsu.edu **no later than 11:59pm EST February 24, 2025**. Please contact Sean Heuser (spheuser@ncsu.edu) if you have any questions.