



**ECOSYSTEM SCIENCE
AND SUSTAINABILITY**
COLORADO STATE UNIVERSITY



SOIL AND CROP SCIENCES
COLORADO STATE UNIVERSITY

MS Researcher – Agriculture and Climate Change
Start date: Fall 2024

The [Agricultural Sustainability and Climate Impacts \(ASCI\) Lab](#) at Colorado State University is seeking a motivated MS student to conduct research on the interactions between agriculture and climate change. This two-year position is fully funded and will begin in fall 2024.

The ASCI Lab conducts research on a wide range of topics related to agricultural sustainability, climate change impacts, and climate change adaptation using spatial data science. Current projects include examining the sustainability of irrigated agriculture, modeling agricultural greenhouse gas emissions, using innovative statistical and machine learning methods to quantify climate hazards, and understanding the influence of agricultural land use change on climate. The selected MS student will work with Dr. Nathan Mueller to develop their MS research project.

Funding: The MS position will be funded by a Graduate Research Assistantship during the first year and a Graduate Teaching Assistantship (GTA) during the second year. As a GTA, the student will be responsible for working 20 hours/week during the Fall and Spring semesters as a teaching assistant for assigned courses (to be determined) in CSU's Department of Ecosystem Science and Sustainability.

Required Qualifications:

- An undergraduate degree in a relevant agriculture or environmental science discipline.
- Strong interests in agricultural sustainability and climate change.

Preferred Qualifications:

- Prior research experience in agricultural science, environmental science, climate science, or a closely related field.
- Familiarity and experience with scientific coding (i.e., R, Python, MATLAB, etc.).
- Strong quantitative skills, including coursework or experience with statistical analyses.
- Excellent written and verbal communication skills.
- Excellent academic performance.
- Ability to work collaboratively in a multidisciplinary team environment.

Graduate Programs: The ASCI Lab is part of the [Department of Ecosystem Science and Sustainability](#) and the [Department of Soil and Crop Sciences](#). Applicants can select the graduate degree program from either department:

- [Master of Science \(MS\) in Ecosystem Sustainability](#)
- [Master of Science \(MS\) in Soil and Crop Sciences](#)

To apply: Interested applicants are encouraged to share their application materials via email with Dr. Nathan Mueller as soon as possible. Top candidates will be encouraged to formally apply through the [CSU Graduate School](#) by **Friday, April 5, 2024**, however applications will be considered on a rolling basis until the position is filled.

Please use the subject line “2024 ASCI MS position – *your name*” and include the following in your email to Dr. Mueller:

- A short letter explaining your interest and suitability for the position.
- A resume / curriculum vitae (CV).
- Contact information of three references.

Contact Information:

Dr. Nathan Mueller

nathan.mueller@colostate.edu

Department of Ecosystem Science and Sustainability

Department of Soil and Crop Sciences

Colorado State University