

**2018 Summer Experience Program Host Site Opportunities
with UC ANR and UCGHI Planetary Health Center of Expertise**

Fellowship Focus	Host site	Student level	Support*	Description of Opportunity
Developing climate decision support materials for growers	UC Merced, Merced, CA	Undergraduate and graduate students	Paid	Translate historical and projected climate data into decision support resources for growers. Analyze climate data, detect trends, and develop outreach resources that could be utilized by agricultural stakeholders.
Research and outreach to vineyard producers on stem water potential, soils, and vine water use	UC Agriculture and Natural Resources, Placerville, CA	Undergraduate and graduate students	Paid	Assist with data collection at a vineyard project site and conduct outreach to growers on stem water potential, foothill soils, and vine water use.
Implementing sensor-based automation of field equipment in the Sierra Foothills	Sierra Foothills Research Extension Center (SFREC), Browns Valley, CA	Graduate student	Paid	Assist with design and installation of a wireless mesh sensor network and sensor-based automation of field equipment.
Environmental Education for youth and adults related to climate change and agricultural activities	Sierra Foothills Research Extension Center (SFREC), Browns Valley, CA	Undergraduate or graduate student	Unpaid	Part time position to assist with design and implementation of community education and outreach activities associated with adapting to drought and shifting environmental patterns.
Developing course materials for UC Agriculture and Natural Resources programs	UC Agriculture and Natural Resources, Davis, CA	Graduate student	Not paid	Design online materials, lessons, curricula to support the development of ANR academics and staff. Examples of potential topics include extension delivery skills, building community support, office management and engaging with people.
Research and outreach on topics related to agricultural water management and irrigation	College of Agricultural and Environmental Sciences, Davis; Kings and Tulare Counties	Undergraduate and graduate students	Not paid	Assist with data collection (both ground measurements and remote sensing estimations), analysis, and interpretation. Conduct literature reviews and assist with development of scientific and outreach materials.

Environmental Education for youth and adults related to climate change and agricultural activities	Elkus Ranch Environmental Education Center, Half Moon Bay, CA	Undergraduate and graduate students	Not paid	Opportunity will involve one or more of the following activities: 1. Integrate information about climate change into education programs for youth and adults, 2. Update livestock care and management to reflect current research/best practices, including pasture analysis/rotation, veterinary care, breeding plans, etc., and/or 3. Create/identify materials to teach teens how to support summer camp activities, recruit and train teens, and evaluate outcome.
Research and outreach to farmers in Santa Clara County	UC Agriculture and Natural Resources, San Jose, CA	Undergraduate and graduate students	Not paid	Collect and analyze data, conduct literature reviews, and assist with community engagement to Chinese farmers in Santa Clara County.
Monitoring for emerging weeds of rice	UC Cooperative Extension Sutter-Yuba, Yuba, CA	Undergraduate and graduate students	Not paid	Assist with data collection related to weed science in California rice. Learn how to identify major weed species in rice, and survey fields for important emerging weeds of rice (weedy rice and <i>Echinochloa</i> spp.). Analyze data and write technical and extension reports.

* Academic credit may be possible and can be explored with program leadership based on the student's home campus and project focus.