

Research Internship in Ecology of Subtropical Grazinglands at Archbold
Biological Station

Beginning March or April 2019

Ideal for Students with Undergraduate Degrees Contemplating Graduate School

Includes independent research project. Provides Weekly stipend of \$200 and free lodging.

The intern will be supervised by Dr. Elizabeth Boughton and exposed to research in grassland and wetland ecology and disturbance ecology (grazing, fire, flooding). The Agroecology lab at Archbold is an active lab currently with 2 post-doctoral research associates, 2 research assistants, 1 environmental technician, and 1 ecohydrologist/instrumentation manager. The lab has 2-4 interns at all times. Interns are exposed to interdisciplinary science and many new skills.

Primarily, the intern will work on a collaborative project investigating the effects of prescribed fire, cattle grazing, and pasture management on grasslands. The intern will be trained to use a variety of instruments to measure: net ecosystem CO₂ exchange, soil greenhouse gas fluxes (N₂O, CH₄, CO₂), and groundwater levels. Other fieldwork will include aboveground plant biomass collection, soil and water collection, and plant species composition. Lab work will include soil sieving, plant biomass weighing and grinding, and water and soil nutrient analyses. Preference will be given to candidates who demonstrate experience with similar measurements and a demonstrated interest in grassland ecology and ecology of grazinglands.

Interns receive lodging and a weekly stipend of \$200. They typically work 20 hours per week as research assistants and the remainder on an independent research project. Internships generally run for 6-12 months but are flexible in their starting dates and durations. Internships offer an opportunity for experience in every aspect of scientific research, from project choice and experimental design to oral and written presentations.

The intern must be able to tolerate living on a remote cattle ranch and provide their own transportation for personal activities. The housing is located at Buck Island Ranch, a division of Archbold Biological Station, located 11 miles away from the main field station. Buck Island Ranch is operated as a commercial cattle ranch which serves as a research platform to investigate ecological and environmental challenges on working landscapes.

Archbold Biological Station is active in research, conservation, and education. Our facilities include a 5000 ha preserve, an outstanding regional library and a GIS lab. We have a staff of about 50 with many visiting scientists, an active seminar program, and a relaxed biological station atmosphere.

To apply for an internship in the agro-ecology lab, please provide the following: a cover letter stating research interests, a description of previous research experience, a resume, and contact information for three references by 15 March 2019. Please EMAIL applications to:

Elizabeth Boughton
eboughton@archbold-station.org
Phone: 863-699-0242 ext 2