

From: Gomez-Casanovas, Nuria
Subject: Research Internship in Carbon Dynamics on subtropical grazing lands

Research Internship in Carbon Dynamics on subtropical grazing lands
Beginning April 2016 (revised start date)

Ideal for Students with Undergraduate Degrees Contemplating Graduate School

Includes independent research project. Provides Weekly stipend, Room, and Food stipend.

Internship at MacArthur Agro-ecology Research Center (MAERC), a division of Archbold Biological Station, in south-central Florida in the Agro-Ecology Program.

The successful intern will be supervised by Dr. Nuria Gomez-Casanovas (University of Illinois) and Dr. Elizabeth Boughton (MAERC). The intern will be exposed to research in biogeochemistry, grassland and wetland ecology, and disturbance ecology (grazing, fire, flooding). Primarily, the intern will work on a project investigating how cattle grazing and fire affect the exchange of greenhouse gases between the atmosphere and grazed pastures. This project is a collaborative effort between the University of Illinois (Drs. Evan H DeLucia, Carl J Bernacchi and Nuria Gomez-Casanovas), Cornell University (Dr. Jed Sparks) and MAERC (Drs. Elizabeth Boughton and Hilary Swain). The successful intern will be trained to use a variety of instruments to measure: net ecosystem CO₂ exchange and soil greenhouse gas fluxes (N₂O, CH₄, CO₂). Other fieldwork will include aboveground and belowground biomass, and soil collection. Long days and work on weekends may be required during intense data collection campaigns. Preference will be given to candidates who demonstrate experience with similar measurements or a strong background (coursework) in biogeochemistry, but all are encouraged to apply. Additionally, candidates with experiences that demonstrate proficiency working outdoors will be considered.

Internships offer an opportunity for providing novel insights into some of the most profound issues challenging our world: securing food in a sustainable way; and for learning how research works.

Interns receive room, a meal allowance, and a weekly stipend of \$100. They typically work 20 hours per week as research assistants and the remainder on an independent research project. The internship will run for 6 months but starting date is flexible.

The intern must be able to tolerate living on a remote cattle ranch and provide their own transportation for personal activities. MAERC is a division of Archbold Biological Station with eight permanent staff, located 11 miles away from the main field station. MAERC 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. The Station cannot hire people without legal status to work in the U.S.

To apply for this internship, please provide the following: a cover letter stating research interests, a description of previous research experience, a resume or CV, a summary of grades, and two letters of recommendation before 9 March 2017. Please email applications to: Dr. Nuria Gomez-Casnovas, ngomezca@igb.illinois.edu.