Brief research description:

This is a National Science Foundation sponsored project aiming to develop a tool which will allow us to predict the phenotype from the genotype in higher plants. This is a multidisciplinary approach designed to incorporate genetic information into a computer crop model. As part of this project, we are trying to elucidate the genetic architecture of several key reproductive traits in the common bean (Phaseolus vulgaris L.). We are looking for two highly motivated students to assist in greenhouse and lab experiments. Participants will gain experience in experiment design, plant breeding, laboratory technique, and plant growth data collection and analysis. This research is particularly relevant to students interested in crop science and plant physiology. Authorship in upcoming publications (e.g. peer-reviewed publications, conference presentations) and inclusion in future experiments will depend on the extent of involvement.

Contact information:

Pepe Clavijo (jclavijom@ufl.edu)

Paid or unpaid: Unpaid

Anticipated schedule: Beginning in January 2013

Hours expected per week: 3-7

Location: Fifield Hall, UF Campus-Gainesville.

Credit available: Yes. The amount will depend on the level of involvement.

Independent research available related to project: Students will be strongly encouraged to develop their own ideas within the context of our broader research objectives.

Experience needed: None required, but candidates with relevant coursework in plant sciences, genetics and statistics, or with computer programming skills are preferred.