

# PARTNER WITH APPLICATIONS IN BIOLOGICAL ENGINEERING (ABE 3000C)

The UF/IFAS Agricultural and Biological Engineering department is seeking industry partners for collaborative project activities. These collaborations will occur in a classroom setting where industry partners are provided with a team of enterprising students to solve a predetermined real-world problem or opportunity.

## ABE3000C: Applications in Biological Engineering

ABE3000C: Applications in Biological Engineering is a junior-level course that is taken by Biological Engineering students in ABE. This course provides an overview of the research and applications of biological engineering, such as bioprocessing, biotechnology, transport processes, biosensors, bioremediation, biological materials and biomedicine.

### What we're looking for -

This course is seeking an industry partners for **in-class projects** to be conducted by students. These projects would last two to three weeks and can be customized by the partner and instructor.

### This course is taught by Dr. Melanie Correll -

Dr. Melanie Correll is an associate professor specializing in building tools to study plant and environmental interactions. She is developing gene-based crop models and characterizing the abiotic and biotic stress effects on plants including the plant microbiome.

### What you need to know -

- Taught in the **Spring semester** (January - April)
- Projects should be decided **two months prior** to semester start
- Course includes weekly lab sessions for hands-on activities
- Prerequisite: BSC 2010: Integrated Principles of Biology 1 or equivalent

### WHAT ARE THE BENEFITS TO INDUSTRY?

- Exposure to potential interns and soon-to-be graduates entering the workforce
- Solutions from innovative minds/digital natives working towards an industry challenge
- Engagement with academics and influence on the future of the discipline

### WHAT ARE THE BENEFITS FOR STUDENTS?

- Appreciation for how coursework concepts are used in the profession
- Greater understanding of the post-graduate workplace
- Connection/networking opportunity with potential employers
- Experiences that better prepares them for their careers and can be featured on their resume

### WHAT ARE THE EXPECTATIONS OF THE INDUSTRY PARTNER?

- Collaborate with the faculty member to design project scope
- Meet with the student team during the project time period
- Provide project feedback to team
- Provide any funding necessary outside of normal course and student supplies

### WHAT TYPE OF DELIVERABLES COULD STUDENTS PROVIDE?

- Project report - Written or presentation/seminar format
- A mock-up of the solution, when practical and feasible
- Project poster and/or video summary

We want your help in training the next generation!

How to get started? →

For more information on this course, contact **Dr. Melanie Correll** at 352-294-6722 or [correllm@ufl.edu](mailto:correllm@ufl.edu)

To schedule a department visit, contact **Shannon Noble** at 352-294-6711 or [shannon.noble@ufl.edu](mailto:shannon.noble@ufl.edu)

