

### **Position Description:**

Applications are solicited for a Postdoctoral Research Associate position in the Agricultural and Biological Engineering Department at the University of Florida under the supervision of Dr. Henry Medeiros. The candidate should be interested in working in the fields of artificial intelligence and robotics applied to agricultural problems. Potential research focus includes but is not limited to agricultural automation using ground and aerial robotic platforms, high throughput plant modeling and phenotyping, and large-scale scene reconstruction and interpretation. The successful candidate should be self-motivated, creative, and have a desire to collaborate in a multidisciplinary environment. The candidate will be expected to publish in peer-reviewed journals and conference proceedings, assist in the supervision of graduate research assistants, and support the preparation of research grant proposals. Review of applications will begin immediately and will continue until the position is filled.

### **Required Qualifications:**

- Ph.D. degree in Agricultural and Biological Engineering, Electrical and Computer Engineering, Computer Science, or a closely related field.
- Demonstrated programming proficiency in Python or other object-oriented programming language.
- Solid knowledge of advanced linear algebra, stochastic processes, information theory, machine learning models, and robotic perception methods.
- Record of previous scientific communications (journal articles or/and conference publications).
- Strong English writing and oral communication skills.

### **Preferred Qualifications:**

- Knowledge and experience in the development of computer vision models, machine learning algorithms, and robotic systems.
- Demonstrated experience with tools and libraries used for the development of robotic systems (e.g., ROS) and machine learning algorithms (e.g., Pytorch, Tensorflow, etc.).
- Experience and willingness to collect data and perform experiments in the field.

### **How to Apply:**

Interested applicants are encouraged to contact Dr. Henry Medeiros ([hmedeiros@ufl.edu](mailto:hmedeiros@ufl.edu)) directly with a copy of your CV and research statement. Additional documentation will be requested of applicants being considered for the position.

### **About the Department:**

The University of Florida is a Land-Grant, Sea-Grant, and Space-Grant institution with an enrollment of more than 56,000 students. The university is ranked fifth among public universities and 28th among public and private national universities according to the 2022 U.S. News & World Report Best Colleges rankings. The University of Florida's Department of Agricultural and Biological Engineering is ranked among the top programs in the nation and provides unique opportunities for in-depth research and field experience with award-winning department faculty. More information at <https://abe.ufl.edu/>.

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