

Position Description:

Applications are solicited for a Graduate Research Assistant (GRA) position (Ph.D. level) 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, 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 publications. The assistantship will cover stipends, tuition, and fee. Review of applications will begin immediately until the position is filled.

Required Qualifications:

- Bachelor's degree in Agricultural and Biological Engineering, Electrical and Computer Engineering, Computer Science, or a related field with a GPA of 3.0 or higher.
- Strong English writing and oral communication skills; Non-English credentials must obtain a TOEFL score of 80 iBT or IELTS score of 6.0 or higher.
- Demonstrated programming proficiency in Python or other object-oriented programming language.
- Solid knowledge of linear algebra and probability theory.

Preferred Qualifications:

- Knowledge and experience in the development of robotic and machine learning systems.
- Familiarity with modern machine learning models and Bayesian estimation methods.
- Experience with tools and libraries used for the development of robotic systems (e.g., ROS) and machine learning algorithms (e.g., Pytorch, Tensorflow, etc.).
- Record of previous scientific communications (journal articles or/and conference publications).
- 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) directly with a copy of your CV and research statement. In addition, students should apply to the University of Florida Agricultural and Biological Engineering Department. More information can be found at <https://abe.ufl.edu/graduate/admissions/>.

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