



ASSISTANT, ASSOCIATE OR FULL PROFESSOR IN INTEGRATIVE PRECISION AGRICULTURE

Employer: University of Georgia

Location: Georgia, United States

Salary: Salary Not Specified

Posted: Dec 17, 2020

Position Type: Faculty Positions, Science, Technology & Mathematics, Agriculture & Animal Sciences, Biology & Life Sciences, Biotechnology & Bioengineering, Computer Sciences & Technology, Other Science & Technology

Employment Type: Full Time

Posting Details

Posting Number: F0785P

Working Title: Assistant, Associate or Full Professor in Integrative Precision Agriculture

Department: Sr VP Acad Affrs & Provost

About the University of Georgia

The University of Georgia (UGA), a land grant and sea-grant university with statewide commitments and responsibilities is the state's oldest, most comprehensive, and most diversified institution of higher education (<http://www.uga.edu/>). UGA is currently ranked among the top 20 public universities in U.S. News & World Report. The University's main campus is located in Athens, approximately 65 miles northeast of Atlanta, with extended campuses in Atlanta, Grin, Gwinnett, and Tifton. UGA was founded in 1785 by the Georgia General Assembly as the rst state-chartered University in the country. UGA employs approximately 1,800 full time instructional faculty and more than 7,600 full-time staff. The University's enrollment exceeds 36,000 students including over 27,500 undergraduates and over 8,500 graduate and professional students. Academic programs reside in 17 schools and colleges, as well as a medical partnership with Augusta University housed on the UGA Health Sciences Campus in Athens.

About the College/Unit/Department [College/Unit/Department website](#)

Posting Type External

Retirement Plan

Employment Type Employee

Benefits Eligibility Benefits Eligible

Underutilization Advertised Salary Commensurate with qualifications and experience

Anticipated Start Date 08/01/2021 Effective End Date (for Limited-Term postings)

Job Posting Date 12/17/2020

Job Closing Date Open until filled

Yes Special Instructions to Applicants

Review of applications will begin on 15 February 2021; however, applications will be accepted until the positions are filled. Inquiries about the positions should be directed to the co-chairs of the search committee, Dr. Jaime Andres Camelio (jcamelio@uga.edu) in the College of Engineering or Dr. Harald Scherm (scherm@uga.edu) in the College of Agricultural & Environmental Sciences. All application materials must be submitted via the university's job portal at <https://www.ugajobsearch.com/postings/179086>.

Materials to be uploaded include:

- i) cover letter addressing the candidate's experience relative to the responsibilities of the position;
- ii) curriculum vitae;
- iii) graduate-level academic transcripts;
- iv) statement of research interests, including a discussion of how the candidate's research would complement existing precision agriculture efforts at UGA ;
- v) description of teaching experience and interests; and
- vi) names and contact information of four professional references.

Selected applicants will be required to submit a background investigation demonstrating eligibility for employment with the University of Georgia.

Location of Vacancy Athens Area EEO Statement

The University of Georgia is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, ethnicity, age, genetic information, disability, gender identity, sexual orientation or protected veteran status. Persons needing accommodations or assistance with the accessibility of materials related to this search are encouraged to contact Central HR (hrweb@uga.edu).

Position Details

Classification Title Open Rank FLSA Faculty Rank Open Rank Contract Type Academic (9 mo.)
Tenure Status Tenure Track or Tenured Minimum Qualifications

Terminal degree appropriate for the discipline

Position Summary

Assistant, Associate or Full Professor in Integrative Precision Agriculture with an academic-year appointment.

Building on one of its key research strengths, the University of Georgia is conducting a cluster hire to five tenure-track or tenured faculty positions in the area of Integrative Precision Agriculture, of which up to three are being recruited for a target start date of August 2021. Outstanding candidates who can contribute significantly to the application of digital agriculture technologies, data analytics, or models with a focus on the rhizosphere (soil, microbiome, and roots) and/or on sustainable intensification of cropping or plantation forestry systems relevant to the southeastern U.S. are especially encouraged to apply. Illustrative examples of the type of expertise sought include, but are not limited to:

- Sensor Development and Distributed Sensing – e.g., novel soil- or plant embedded sensors and biodegradable sensor networks for distributed in-situ measurements of agricultural and environmental variables.
- Systems Modeling – e.g., predicting root and shoot growth, nutrient and water uptake, host-microbiome interactions, and pest/pathogen spread at field and landscape scales to fine-tune site specific crop management, optimize yield potential, and minimize environmental impacts.
- AI-Enabled Decision Analysis and Data Analytics – e.g., leveraging data from high-resolution images and sensor networks to improve soil, crop, and plant health management decisions at field and landscape scales.
- Automation and Actuation – e.g., robotics and imaging technologies for phenomics and precision crop management; smart machinery for belowground seed placement and precision pest management; and accurate detection of biotic and abiotic plant stressors.

The new faculty members are expected to develop a vigorous, high-impact, externally funded research program; work closely with other members of the cluster hire and existing faculty specializing in precision agriculture; actively participate in the mentoring of graduate students and postdoctoral scientists; effectively support our teaching mission at the undergraduate and graduate levels; and contribute to a diverse and inclusive environment within the university. Specific teaching assignments will be negotiated with the hiring department, but are expected to be commensurate with a 0.25 FTE instructional appointment.

Specific responsibilities include (but are not limited to):

- (1) obtain extramural funds to support research and teaching programs,
- (2) establish a strong record of scholarly activity, and
- (3) direct PhD and MS degree students and postdoctoral associates.

This is a university-wide search. Successful candidates will select an appropriate home department and college during the interview and appointment process. The incumbents are expected to work collaboratively with each other and with existing precision agriculture faculty at the University of Georgia, including faculty in cross-cutting units such as the Phenomics and Plant Robotics Center (<https://pprc.uga.edu/>), the Precision Agriculture team (<https://research.uga.edu/news/farming-for-the-future-uga-leads-the-way-in-precision-agriculture/>), and the Institute for Artificial Intelligence (<https://www.ai.uga.edu/>), among others.

Additional Requirements

All candidates must have a Ph.D. in an agricultural science, engineering, computer science or related discipline. All candidates must also have a documented research background, as evidenced by peer-reviewed publications, in the application of technologies, data analytics, or models to problems in agriculture or biology.

To be considered at the rank of Associate Professor, candidates must have at least 5 full years in rank at the Assistant Professor level.

To be considered at the rank of Professor, candidates must have at least 5 full years in rank at the Associate Professor level.

Specific criteria for the Associate Professor and Professor levels in potential home departments are summarized at

<https://provost.uga.edu/policies/appointment-promotion-and-tenure/promotion-tenure-criteria/>

To be eligible for tenure upon appointment, candidates must be appointed as an associate or full professor, have been tenured at a prior institution, and bring a demonstrably national reputation to the institution. Candidates must be approved for tenure upon appointment before hire.

Relevant/Preferred Education, Experience, Licensure, and/or Certification

- 2-years of postdoctoral experience preferred.
- Preferred Knowledge, Skills, Abilities and/or Competencies Physical Demands
- Is this a Position of Trust? No
- Does this position have operation, access, or control of nancial resources? No
- Does this position require a P-Card? No
- Is having a P-Card an essential function of this position? No
- Is driving a responsibility of this position? No
- Does this position have direct interaction or care of children under the age of 18 or direct patient care? No
- Does this position have Security Access (e.g., public safety, IT security, personnel records, patient records, or access to chemicals and medications) No
- Credit and P-Card policy

Be advised a credit check will be required for all positions with financial responsibilities. For additional information about the credit check criteria, visit the UGA Credit Background Check website.

Duties/Responsibilities

Posting Specific Questions

Required fields are indicated with an asterisk (*).

Applicant Documents

Required Documents

1. Resume/CV
2. Cover Letter
3. Unofficial Transcripts
4. List of References with Contact Information
5. Teaching Portfolio/Philosophy
6. Research Portfolio/Philosophy