POSITION TITLE AND DESCRIPTION: The University of Georgia invites applications for multiple positions in Integrative Precision Agriculture at the Assistant, Associate or Full Professor rank with academic-year appointments. This is year 2 of a university-wide search; home department appointments will be made based on area of expertise in consultation with the appropriate department head and dean.

MAJOR RESPONSIBILITIES: Building on one of its key research strengths, the University of Georgia is conducting a cluster hire to fill nine tenure-track or tenured faculty positions in the area of Integrative Precision Agriculture, of which at least four are being recruited for a target start date of August 2022. This is part of a major hiring initiative that will bring over 50 new faculty members in the broader area of Data Science and AI to the university. Outstanding candidates who can contribute significantly to the application of digital agriculture technologies, data analytics, or models to 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; applying machine learning and data mining methods to crop and agricultural datasets for yield prediction and sustainability.

- **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.

- One of the positions to be recruited will focus specifically on **Co-Robotics and Human-Robotic Interactions in agricultural systems**. Research may include human-in-the-loop systems and the safe co-existence of workers and robots in close proximity while leveraging the relative strengths of robots and humans in planning and performance of agricultural tasks. This position will be recruited into the School of Electrical & Computer Engineering.

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; effectively mentor 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 25% instructional appointment.

MORE INFORMATION: 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/227850