Assistant Professor of Precision Food Production Systems

**Position:** Assistant Professor position (9-month) at Purdue University with research and teaching responsibilities related to climate-smart, controlled-environment food production using digital systems. The ideal candidate will employ computational approaches that combine instrumentation, actionable analytics, end-to-end data management, modeling, and automation for precision livestock or controlled environment plant production systems. The successful candidate will join the faculty in the Department of Agricultural and Biological Engineering on the main campus of Purdue University in West Lafayette, Indiana.

**Qualifications:** A Ph.D. in engineering, computer science, or related field(s) with expertise in digital systems applicable to food production. The ideal candidate will have a strong commitment to effective teaching, communication, and problem solving as well as the ability to work in interdisciplinary teams.

**Responsibilities:** The candidate will be expected to develop an internationally recognized research program. The candidate will also be expected to mentor undergraduate and graduate students and teach digital agriculture courses for undergraduate and/or graduate students. The candidate should contribute to departmental, college, and university-level service activities which might include outreach or Extension as well as teaching/learning. Potential exists for teaching online courses.

**The Colleges:** The Department is part of the Colleges of Engineering and Agriculture at Purdue University that are deeply committed to the three land-grant missions (Teaching, Research, and Extension), to international activities and perspectives that span all missions, and to supporting a diverse and inclusive environment focused on excellence. The College of Agriculture is one of the world’s leading colleges of agricultural, food, life, and natural resource sciences and is ranked #8 in the world in the 2022 QS World University Rankings. The College of Agriculture has 11 academic departments and includes 302 faculty, 2,823 undergraduate students, and 689 graduate students. The College of Agriculture’s strategic plan can be accessed at [https://ag.purdue.edu/about/strategic-plan.html](https://ag.purdue.edu/about/strategic-plan.html). The College of Engineering is one of the world’s leading colleges of engineering with undergraduate programs ranked #9 and graduate programs ranked number #4 by US News & World Report. The College of Engineering has 13 academic units, 494 faculty, 11,142 undergraduate students, and 4,992 graduate students. The College of Engineering goal of Pinnacle of Excellence at Scale is guiding strategic growth in new directions, by investing in people, exciting Purdue Engineering Initiatives (PEI’s), and facilities. Purdue and the College of Engineering have a Concierge Program to assist new faculty and their partners regarding dual career needs and facilitate their relocation.

Purdue’s main campus is in West Lafayette Indiana, a welcoming and diverse community with a wide variety of cultural activities and events, and industries. Purdue University’s Department of Agricultural & Biological Engineering is committed to advancing diversity in all areas of faculty effort including scholarship, instruction, and engagement. Candidates should address at least one of these areas in a separate Diversity and Inclusion Statement, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion. Purdue University, the College of Agriculture, and the Agricultural & Biological Engineering Department are committed to free and open inquiry in all matters. Candidates are encouraged to address in their cover letter how they are prepared to contribute to a climate that values free inquiry and academic freedom.

**Opportunities for Collaboration:** Numerous opportunities for collaborations throughout Purdue University exist. Collaborators will likely be found through the Purdue Plant Sciences 2.0 Initiative, Internet of Things for Precision Agriculture (IoT4Ag) Engineering Research Center, Open Ag Technology and Systems (OATS) Center, Institute for a Sustainable Future, Purdue Applied Microbiome Sciences (PAMS), Center for Animal Welfare Science (CAWS), Bioinformatics Core, Digital Innovation in Agri-Food Systems Lab, Purdue Robotics Accelerator, among others.
Collaborations may also be found in the aerospace field in the area of controlled-environment bioregenerative life support and with groups like the **Purdue Policy Research Institute (PPRI)**.

**Appointment and Salary:** Assistant Professor (9-month appointment; tenure-track). Salary commensurate with qualifications and experience. A background check will be required for employment in this position.

**Application Deadline:** Review of applications will begin December 10, 2022, and continue until the position is filled.

**Application:** 1) Letter of interest; 2) resume; 3) official academic transcripts; 4) statement of diversity; 5) teaching philosophy; 6) research philosophies; and 7) contact information for three references are required. All materials must be combined into one PDF and submitted electronically via: [https://careers.purdue.edu/job/West-Lafayette-Assistant-Professor-of-Precision-Food-Production-Systems-IN-47906/953969400/](https://careers.purdue.edu/job/West-Lafayette-Assistant-Professor-of-Precision-Food-Production-Systems-IN-47906/953969400/) Or [https://careers.purdue.edu/job-invite/22763/](https://careers.purdue.edu/job-invite/22763/) A background check is required for employment in this position.

CONTACT: Address inquiries to: Dr. Dennis Buckmaster, Search Committee Chair; Email: abejob@ecn.purdue.edu or phone (765) 496-9512. For additional information see [http://www.purdue.edu/ABE](http://www.purdue.edu/ABE).

*Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.*