

Position Title: Postdoctoral Research Associate in advanced Modeling and Simulation Applied to Food Loss and Waste

Department: Agricultural and Biological Engineering

Institution: University of Florida

Location: Gainesville, FL

Job Description: The Department of Agricultural and Biological Engineering at the University of Florida invites applications for a Postdoctoral Research Associate position as part of the Foundation for Food and Agriculture Research (FFAR) project titled “Integrated Food Waste Measurement and Predictions Supported by Agent-Based Models (IFWASTE)”

The successful candidate will be at the forefront of applying advanced modeling and simulation tools, with a particular focus on agent-based modeling, to the assessment of food loss and waste at the household level. This project is aimed at building and refining advanced simulations to assess the multifaceted complexities of food loss and waste systems. The hired postdoctoral researcher will work in an interdisciplinary team of engineers, social scientists, implementation partners such as City of Gainesville, Alachua County, and Sarasota Extension office and help coordinate the project efforts.

Key Responsibilities:

1. Development of agent-based models and advanced simulations to assess food loss and waste.
2. Collaborating with interdisciplinary teams to integrate these models into larger system analyses.
3. Publishing research findings in high-quality academic journals and presenting results at international conferences.
4. Mentoring graduate students and contributing to grant proposal writing.
5. Contribution to the project management and organizing the project team.

Qualifications:

1. PhD in Systems Science, Computer Science, Agricultural and Biological Engineering, Environmental Science and Engineering, Economics, or a closely related field.
2. Expertise in agent-based modeling and advanced simulation tools.
3. Experience in analyzing complex systems, with a preference for research related to food loss and waste.
4. Proficiency in programming languages such as Python, Java, or R.
5. Interest and expertise in Artificial Intelligence and Data Science is a plus.
6. Excellent written and verbal communication skills, with a demonstrated ability to publish research findings.

7. Ability to work in a collaborative research environment and coordinate the project teams and ensure the milestones are met
8. Salary: This is a full-time, grant-funded, 18-month position with the possibility of extension based on performance and funding availability. Salary is competitive and includes a benefits package.

Application Procedure: Interested applicants should submit a cover letter detailing their research interests and experience, a CV, and contact information for three references to ziynetboz@ufl.edu

Application Deadline: Review of applications will begin in July 2023 and continue until the position is filled.

The University of Florida is an Equal Opportunity Employer. We are dedicated to building a culturally diverse and inclusive faculty committed to teaching and working in a multicultural environment and strongly encourage applications from all backgrounds and experiences.

For further inquiries about the position, please contact Dr. Ziyet Boz, ziynetboz@ufl.edu or Dr. Greg Kiker gkiker@ufl.edu

The Institute of Food and Agricultural Sciences is committed to creating an environment of inclusive excellence that affirms diversity across a variety of dimensions, including ability, class, ethnicity/race, gender identity and expression. Inclusive excellence is the active process of including and respecting everyone as we strive for excellence and equitable outcomes in all we do at the University of Florida. We particularly welcome applicants who can contribute to such an environment through their scholarship, teaching, mentoring, and professional service. We strongly encourage historically underrepresented groups to apply.

Hiring is contingent upon eligibility to work in the US. The University of Florida is a public institution and subject to all requirements under Florida Sunshine and Public Record laws.

If an accommodation due to a disability is needed to apply for this position, please call 352-392-2477 or the Florida Relay System at 800-955-8771 (TDD) or visit Accessibility at UF.