



[Agricultural & Biological Engineering](#)
1741 Museum Rd
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POSITION # 00014844
REQUISITION # 528246

Title: Assistant/Associate Professor - Emerging Contaminants Transport and Fate Engineer in Water Systems

Location: Agricultural and Biological Engineering
University of Florida
Institute of Food and Agricultural Sciences (IFAS)
Gainesville, Florida

Salary: Commensurate with Qualifications and Experience

Review Date: For full consideration, candidates should apply and submit materials by **November 12, 2023**. The position will remain open until a viable applicant pool is determined.

Duties and Responsibilities

The [Institute of Food and Agricultural Sciences](#) is creating an environment that affirms community across all dimensions. We particularly welcome applicants who can contribute to such an environment through their scholarship, teaching, mentoring, and professional service. 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](#) .

This is a 9-month tenure-accruing position that will be 40% teaching (College of Agricultural and Life Sciences) and 60% research (Florida Agricultural Experiment Station), available in the Agricultural and Biological Engineering Department, Institute of Food and Agricultural Sciences, at the University of Florida. This assignment may change in accordance with the needs of the unit. Duties will include developing and teaching courses, contributing to the biosystems modeling certificate, mentoring graduate students, leading a research program, contributing service to the profession and community, and collaborating with others at UF and externally. Tenure will accrue in the Department of Agricultural and Biological Engineering. The faculty member will seek contract and grant funding actively to support their program. The faculty member will engage in Extension activities in their program area.

Florida's agricultural, natural and urban ecosystems are being negatively impacted by the increasing amount and complexity of contaminants in its land and water resources. These conventional (e.g., toxic algae, nutrients, pesticides) and emerging (microplastics, nanomaterials, pharmaceuticals and personal care products, etc.) contaminants reduce the health and diversity of biological systems. The faculty member will develop solutions for characterizing, monitoring, predicting, and mitigating harmful

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contaminants to protect and sustain the agriculture and natural resources of the State of Florida. Proven expertise and research products in contaminant (physio-)chemistry, fluid dynamics, solute and particle transport, and systems modeling are required.

Collaboration with the Florida Sea Grant, UF HWCOE Departments and Centers (e.g., Nanoscale Research Facility, Center for Coastal Solutions), UF Department of Environmental and Global Health, UF IFAS, UF Water Institute, and the Departments of the Florida Water Management Districts is expected.

The successful candidate will engage in scholarly activities related to instruction, including teaching undergraduate and/or graduate courses, advising and mentoring undergraduate and graduate students, participating in curriculum revision and enhancement, seeking funding for the teaching program, supervising undergraduate and graduate research and creative work, publishing teaching-related scholarship, producing learning tools, and engaging in professional development activities related to teaching and advising. Faculty are encouraged to support and participate in the CALS Honors Program, distance education, and international education.

Because of the IFAS land-grant mission, all faculty are expected to be supportive of and engaged in all three mission areas—Research, Teaching and Extension—regardless of the assignment split specified in the position description.

Qualifications

Required:

A doctorate (foreign equivalent acceptable) in agricultural, biological, environmental, or chemical engineering or a closely related discipline is required.

Candidates should have demonstrated skills in verbal and written communication, interpersonal relationships, and procurement of extramural funding.

Candidates are expected to show potential and interest in teaching undergraduate and graduate courses in the Agricultural and Biological Engineering department.

Candidates must be supportive of the mission of the Land-Grant system. Candidates must also have a commitment to [UF core values](#) of excellence, discovery & innovation, inclusion, freedom & civility, community, and stewardship.

Candidates must have evidence of experience in modeling applications and laboratory experimentation related to the expertise of this position description.

Preferred:

Postdoctoral or other professional experience and products.

Evidence of effectively working in multi/trans-disciplinary groups or consortia between academia and outside stakeholders.

Involvement in professional societies or other entities related to the discipline.

Mentorship experience with undergraduate or graduate students.

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Experience securing or competing for external funding.

Background Information:

The [Agricultural and Biological Engineering Department](#) is a unit in the Institute of Food and Agricultural Sciences (IFAS) at the University of Florida and has diverse teaching, research and extension education programs. The Department is comprised of 35 faculty members located on the Gainesville campus, 7 faculty located across the state at research and education centers, and 20 support personnel, and consistently ranks in the top 10 Agricultural and Biological Engineering programs nationwide. Instilling excellence in research, leadership, innovation, and entrepreneurship are ABE's highest priorities. At ABE, the candidate will join a dynamic, cross-disciplinary group of researchers, and will enjoy broad opportunities for collaborations with existing teams, including those studying biofilm systems and biosensors, mechatronics, data analytics and artificial intelligence, coupled natural and human ecosystems, climate variability and change, crop modeling, hydrology and water quality. The candidate will also benefit from the Artificial Intelligence Initiative at UF which includes the HiPerGator – high performance supercomputer, the NVIDIA AI Technology Center, university-wide curriculum efforts, and AI research opportunities.

The [University of Florida](#) is a Land-Grant, Sea-Grant, and Space-Grant institution, encompassing virtually all academic and professional disciplines, with an enrollment of more than 56,000 students. UF is a member of The Association of American Universities. The [Institute of Food and Agricultural Sciences](#) includes the [College of Agricultural and Life Sciences](#), the [Florida Agricultural Experiment Station](#), the [Florida Cooperative Extension Service](#), the [College of Veterinary Medicine](#), the [Florida Sea Grant](#) program, and encompasses 16 on-campus academic departments and schools, 12 Research and Educational Centers (REC) located throughout the state, 6 Research sites/demonstration units administered by RECs or academic departments, and Florida Cooperative Extension Service offices in all 67 counties (counties operate and maintain). The School of Natural Resources and Environment is an interdisciplinary unit housed in IFAS and managed by several colleges on campus. UF/IFAS employs nearly 4,500 people, which includes approximately 990 salaried faculty and 1,400 permanent support personnel located in Gainesville and throughout the state. IFAS, one of the nation's largest agricultural and natural resources research and education organizations, is administered by a Vice President and four deans: the Dean of the College of Agricultural and Life Sciences, the Dean for Extension and Director of the Florida Cooperative Extension Service, the Dean for Research and Director of the Florida Agricultural Experiment Station, and the Dean for the College of Veterinary Medicine. UF/IFAS also engages in cooperative work with Florida A&M University in Tallahassee.

Employment Conditions

This position is available August 16, 2024, and will be filled as soon thereafter as an acceptable applicant is available. Compensation is commensurate with the education, experience, and qualifications of the selected applicant.

Nominations

Nominations are welcome. Nominations need to include the complete name and address of the nominee. This information should be sent to:

Please refer to Requisition # 528246
Dr. Rafa Muñoz-Carpena
Chair, Search and Screen Committee

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PO Box 110570
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Telephone: 352.294.6747
Facsimile: 352.392.4092
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Application Information

- Individuals wishing to apply should go online to [Careers at UF](#) and submit:
 - Cover letter that states applicant's interest in the position and qualifications relative to the credentials listed above.
 - Curriculum vitae
 - Contact information (including email addresses) for three individuals willing to write letters of recommendation.
 - Transcripts (unofficial ones are acceptable at time of application)

Selected candidate will be required to provide an official transcript to the hiring department upon hire. A transcript will not be considered "official" if a designation of "Issued to Student" is visible. Degrees earned from an education institution outside of the United States are required to be evaluated by a professional credentialing service provider approved by [National Association of Credential Evaluation Services \(NACES\)](#).

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.

The [University of Florida](#) is an Equal Opportunity Institution dedicated to building a broadly diverse and inclusive faculty and staff. The University and greater Gainesville community enjoy a diversity of cultural events, restaurants, year-round outdoor recreational activities, and social opportunities.

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