Department: Food, Agricultural & Biological Engineering
Position: Embedded Systems and Wireless Communications
Rank: Assistant Professor or Associate Professor

Description:

The Ohio State University seeks qualified candidates for a 9 month, tenure-track faculty position available in Columbus starting on or after January 1, 2016. The position will concentrate on Research and Instruction. The successful candidate will conduct engineering research in: development and deployment of embedded systems, including wireless communications and digital system design, to support cropping systems within agriculture; implementation of UAS for collection of field and crop information; data analytics for machinery logistics and management; and related topics in support of production agriculture. Successful Candidates will teach courses related to embedded systems and their contribution to data analytics within agricultural systems. Other courses could include: instrumentation, wireless networks in agriculture, data structure, hardware architectures, instrumentation for biological systems, and Controller Area Networks (CAN) to cloud-based systems. Additional responsibilities include: secure extramural funding to support research and teaching programs, provide leadership to the profession through state and national professional society participation, and advise graduate and undergraduate students. This position is partially funded by Ohio State’s Discovery Themes Initiative, a significant investment that leverages the university’s expansive scholarly resources, creativity and shared commitment to make a global impact.

Qualifications:

Minimum qualifications include an earned Ph.D. in agricultural engineering, biological engineering or closely allied discipline; and registration as a Professional Engineer or demonstrated eligibility. The candidate must have formal training and experience in three or more of the following areas: digital signal processing theory and algorithms; structured and object-oriented software architectures; algorithm modeling and validation; embedded systems, wireless networks, and hardware architectures, and cloud-based systems for transmitting and storing large, complex data sets. The preferred candidate should have experience with embedded and wireless communications systems applied to precision agriculture. It is essential that the candidate has agricultural experience; excellent speaking and writing skills; ability and desire to work in interdisciplinary, interdepartmental Research teams; and teaching. The candidate must establish and conduct a research program resulting in national impacts and high-quality publications. Industry experience is desirable. Preferred Qualifications: Experience developing or working in interdisciplinary research teams, experience in mentoring members of underrepresented groups.

About Columbus:

The Ohio State University campus is located in Columbus, the capital city of Ohio. Columbus is the center of a rapidly growing and diverse metropolitan area with a population of over 1.5 million. The area offers a wide range of affordable housing, many cultural and recreational opportunities, excellent schools, and a strong economy based on government as well as service, transportation and technology industries (see http://liveworkplaycolumbus.com/). Columbus has consistently been rated as one of the
Top U.S. cities for quality of life, and was selected as one of the Top 10 cities for African Americans to live, work, and play by Black Enterprise magazine. Additional information about the Columbus area is available at [http://www.columbus.org](http://www.columbus.org)

**Application Instructions:**

Applications accepted through October 1, 2015, or until a suitable candidate is found. Applicants should submit a letter of application, curriculum vita, academic transcripts, a one-page summary of their philosophy of teaching and research, and a statement specifically addressing their experiences in mentoring underrepresented groups. Applicants should provide the names and contact information (address, e-mail, and phone number) of three professional references. All application materials should be sent electronically to:

Dr. John Fulton, Associate Professor and Search Committee Chair  
Food, Agricultural and Biological Engineering  
The Ohio State University  
590 Woody Hayes Drive  
Columbus, OH 43210-1057  
Telephone: 614/292-6625; Fax: 614/292-9448; E-mail: fulton.20@osu.edu

The Ohio State University is committed to establishing a culturally and intellectually diverse environment, encouraging all members of our learning community to reach their full potential. We are responsive to dual-career families and strongly promote work-life balance to support our community members through a suite of institutionalized policies. We are an NSF Advance Institution and a member of the Ohio/Western Pennsylvania/West Virginia Higher Education Recruitment Consortium (HERC).

The Ohio State University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation or identity, national origin, disability status, or protected veteran status.