Department: Food, Agricultural and Biological Engineering (75%; tenure initiation unit), and Horticulture and Crop Science (25%)
Position: Crop Health Sensing
Rank: Assistant Professor

Description:
The Ohio State University seeks qualified candidates for a 9 month, tenure-track faculty position starting Aug. 16, 2018. The position will concentrate on Research (50%) and Instruction (50%). The successful candidate will conduct engineering proximity sensor technology and data management science research relating to crop health and yield assessment for precision field and controlled environment crop production, and high throughput phenotyping systems. Research topics will include two or more of the following sensing and information technologies: in situ crop gas exchange sensors, multispectral imaging devices, in situ soil nutrient sensors, non-contact soil moisture sensing technologies, smart sensors, database management, and data mining. The successful candidate will teach courses related to instrumentation, data management, and controls for crop production. Other courses could include: smart sensors, data mining for biological systems, machine vision, sensing of plant physiological processes, and automation for plant production systems. The successful candidate will be expected to establish a nationally and internationally recognized research program supported by extramural funding. Additional responsibilities include: provide leadership to the profession through state and national professional society participation, and advise graduate and undergraduate students and be involved with co-curricular programs or student clubs and organizations. This position is partially funded by Translational Data Analytics (https://discovery.osu.edu/tda/), a focus area of Ohio State's Discovery Themes; a significant faculty hiring investment in key thematic areas in which the university can build on its culture of academic collaboration 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 is preferred. The candidate must have formal training and experience in three or more of the following areas: instrumentation, data acquisition and signal processing; mathematic modeling and simulation languages; geographic information systems; statistical data analysis tools; cloud-based systems for transmitting and storing large, complex data sets; and data, information visualization; and plant physiology. The preferred candidate will have a crop production background demonstrated via holding academic degrees and/or completing significant coursework in sensors, electronics, data management, data analysis, plant sciences, soil sciences or plant pathology. Candidates should have crop production 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.

**Application Instructions:**

Applications accepted through Jan. 8, 2018, or until a suitable candidate is found. Applicants should submit a letter of application, curriculum vita, academic transcripts, 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. Peter Ling, Search Committee Chair  
Food, Agricultural and Biological Engineering  
The Ohio State University  
116 Food, Agricultural & Biological Engineering  
1680 Madison Avenue  
Wooster, OH 44691  
Telephone: 330-263-3857  
E-mail: ling.23@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.