**Assistant Professor - Civil, Environmental, Geodetic, Electrical and Computer Engineering**
The Ohio State University, College of Engineering
Columbus, OH

**Summary:** The Department of Civil, Environmental and Geodetic Engineering (CEGE) and the Department of Electrical and Computer Engineering (ECE) at The Ohio State University invite applicants for a full-time, tenure-track position at the Assistant Professor rank in *data analytics and sensing for human health and the environment*. The position will be filled jointly between the Departments of CEGE and ECE, both in the College of Engineering. The tenure-initiating unit will be in the Department of CEGE.

**Required Qualifications:** Candidates are expected to demonstrate how their research relates to collection and analysis of sensory data from regional and global geodetic and remote-sensing systems to monitor environmental changes, impacts of human activities on climate change, and develop management plans that maintain and increase ecosystem and human health, and how their academic background prepares them to address these issues now and in the future. The desired expertise for this position include, but is not limited to: data generation, processing, integration, analysis, modeling and decision support, with special emphasis on (1) geospatial and temporal (4D) modeling and implementation of advanced technologies based on multi-sensory and multi-dimensional data resources including active (LiDAR) and passive (optical) sensory data; (2) enhancements of sensor technologies to improve precision, resolution, stability, and the ability to generate new data. This position is partially funded by The Ohio State's Discovery Themes Initiative, 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.

The successful candidate is expected to develop an active research program, effectively teach undergraduate and graduate courses of interest to both CEGE and ECE, supervise and mentor underrepresented groups and graduate students, and be involved in service within the university and in appropriate professional communities. The successful candidate is also expected to interact and collaborate with members of multi-disciplinary centers and initiatives at The Ohio State University, including the Center for Urban and Regional Analysis, Center for Resilience, Office of Energy and Environment, Center for Sustainability (being formed to consolidate the multifaceted endeavors on the OSU campus related to sustainability), School of Earth Sciences, Byrd Polar Research Center, and the campus-wide interdisciplinary initiative expanding faculty expertise in data analytics. An earned doctoral degree in Geomatics or Geoinformation Engineering, Geodesy, Remote Sensing, Electrical Engineering, Computer Science, Civil and Environmental Engineering or a closely related field is required prior to the anticipated start date of August 2015.

**Overview:** The Department of CEGE currently has 20 faculty members supporting ABET-accredited degree programs in Civil and Environmental Engineering, 132 graduate and 760 undergraduate students, and numerous funded multidisciplinary research programs (see http://ceg.osu.edu/ for more information about the Department). The Department of ECE offers ABET-accredited degree programs in Electrical and Computer Engineering supported by 77 faculty members serving to 412 graduate and 917 undergraduate students.

The Ohio State University, a land-grant university, is ranked 19th among US universities in total research expenditures. Also, it is third in the nation among all universities in industry-funded research expenditures, with nearly half of this research conducted in the College of Engineering. OSU is located in Columbus, which is the 15th largest city in the country with a metropolitan population of 1.8 million. Columbus offers a high quality of life, with affordable housing in vibrant neighborhoods, quality public schools, and economic prosperity. It is a city that celebrates diversity and is consistently rated as one of

the best places to live in the country for African-Americans, members of the LGBT community, and families.

**Application Instructions:** To apply, please submit your application electronically in the form of a single PDF file attached to an e-mail message addressed to eng-cege-sensoranalytics@osu.edu The PDF file must include, in this order, a cover letter; curriculum vita; statements of research and teaching interests; the names and contact information of three references; and copies of up to three papers (published, under review, or in preparation). Review of applications will begin on January 4, 2015 and continue until the position is filled.

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.

The Ohio State University is an Equal Opportunity, Affirmative Action Employer and an NSF Advance Institution. The university is committed to a diverse workforce and encourages applications without regard to race, color, religion, sex, sexual orientation or identity, national origin, disability status, or protected veteran status. The university is also dedicated to addressing the family needs of faculty, including dual career couples and single parents.