



Tenure-Track Faculty Position Complex Large Scale Systems Modeling and Non-Linear Optimization

**Industrial and Systems Engineering Program
Department of Integrated Systems Engineering
The Ohio State University
Philip Smith, Professor and Chair**

The Department of Integrated Systems (ISE) at The Ohio State University, one of the nation's top ten public universities, invites applications for a tenure-track position focusing on Complex Large Scale Systems Modeling and Non-Linear Optimization. All faculty ranks will be considered. ISE offers degrees (BS, MS and Ph.D.) in Industrial and Systems Engineering. Its undergraduate and graduate programs are consistently among the top programs ranked by USNWR, as the Department has exceptional strength in all major areas associated with the discipline. The Department also has an excellent track record for industry engagement and technology transfer.

This position is partially funded by 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 will be engaged in the Sustainable and Resilient Economy program (<https://discovery.osu.edu/SRE>), working with a highly collaborative interdisciplinary community of scholars that is taking a holistic approach to understand how production and consumption systems are linked to ecological systems, and how society can achieve more sustainable and resilient development. In particular, integrated assessment modeling and advanced optimization methods are needed to assess economic, environmental and social impacts, benefits, and trade-offs across different spatial and temporal scales.

The successful applicant will be expected to excel at creating and participating in interdisciplinary research teams. This person will establish a strong research program, attract research funding from federal, state and industry resources, supervise graduate student research, and disseminate the results of such research through high quality peer-reviewed publications. Additionally, this faculty member will extend current course offerings in non-linear optimization and the modeling of complex systems at both the undergraduate and graduate levels.

Interested candidates should electronically submit a complete curriculum vitae, a separate statement of current and future research interests, a statement of teaching philosophy, contact information for five references and three sample publications to the following email address: freitas.6@osu.edu. The search committee will start reviewing applications for this position on Oct. 1, 2015, but it will remain open until 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 Advanced 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. Applications from women and other underrepresented or minority groups are encouraged. Columbus is a thriving metropolitan community, and the University is responsive to the needs of dual career couples.