Faculty Position in Cyber-Physical Systems (All Ranks)

The University of Virginia School of Engineering and Applied Science has launched a multi-million dollar initiative to create a collaborative world class center of research excellence in Cyber-Physical Systems. The initiative includes an international search for 8 new faculty members across 5 different departments. More information about these positions and the initiative can be found online (http://linklab.virginia.edu).

As part of this initiative, the Department of Civil and Environmental Engineering is seeking candidates at all ranks for one or more tenured/tenure-track faculty positions with research interests in applying tools and concepts from cyber-physical systems to problems in civil and environmental engineering. In particular, UVa is seeking to strengthen and expand our focus in *advanced infrastructure systems* - innovative applications of information technology that improve the performance, reliability, resiliency, and reduce the life-cycle cost of the broad range of civil infrastructure systems that support society. Specific examples of advanced infrastructure systems of particular interest to our program include:

- **Structural health monitoring**: sensor systems and networks, remote sensing, and data analytics to support infrastructure assessment;
- **Intelligent transportation systems**: connected vehicles, autonomous vehicles, active traffic control and management, disruptive transport technologies, and related areas;
- **Building energy management**: smart-grid technologies for building performance, energy monitoring systems, and other applications of building automation systems for improved energy and water efficiency at the building or city scale;
- **Hydroinformatics**: application of data and computational science to improve understanding and management of large, complicated water resource systems.

Candidates with research interests in other topics related to advanced infrastructure systems will also be considered.

Successful candidates will find a vibrant research culture and an abundance of collaboration opportunities with other departments that have strengths in cyber-physical systems. The department is widely recognized for its sponsored research program, with key collaborative affiliations, including the Virginia Center for Transportation Innovation and Research (VCTIR), and the Mid-Atlantic Transportation Sustainability University Transportation Center (MATS UTC). The University of Virginia is an equal opportunity and affirmative action employer. Women, minorities, veterans, and persons with disabilities are encouraged to apply. Furthermore, the university is an active dual career employer, and is an NSF ADVANCE institution, and is committed to enhancing a culturally diverse community.

The University of Virginia is rated as one of the top 3 public universities in the nation and in the top 30 among all universities, public and private. Charlottesville is frequently cited as one of the best cities in which to live and work. More information about town, the school, faculty benefits, and other topics can be found at: http://uvacharge.virginia.edu/guide.html

Candidates must have a record of excellence in research, as appropriate for the candidate's rank, and a commitment to teaching excellence. Applicants should expect to have a PhD in Civil and Environmental Engineering or a closely related discipline by the appointment start date. Candidates will be expected to engage in funded research, to teach at the undergraduate and graduate levels, and to perform service for the institution and professional organizations.

To apply, candidates must submit a Candidate Profile through Jobs@UVA (https://jobs.virginia.edu), search on posting number 0617535. Applicants should submit a cover letter, CV, teaching statement, research statement, and names and contact information for 3 references. In the research statement, applicants should explicitly discuss any experiences with or plans for collaborative or cross-cutting research. We will begin reviewing applications on December 1, 2015 and will continue to review applications as they are received until the positions are filled. For questions about this position, please contact Jon Goodall at goodall@virginia.edu.