The School of Engineering and Applied Science at the University of Virginia has recently launched a multi-million dollar initiative to create a world class center of research excellence in Cyber-Physical Systems (CPS). The initiative has resulted in the formation of the cross-cutting Link Lab where over a dozen faculty from multiple departments collaborate on cross-cutting research. The Link Lab is dedicated to solving the most critical problems facing society by transcending traditional disciplinary boundaries.

Building on this effort, UVa Engineering seeks candidates for two open rank, tenured or tenure-track faculty positions in the areas of both cyber physical systems and smart cities. The successful candidates will have a primary appointment in a UVa Engineering department and be expected to engage in funded research, teach at the undergraduate and graduate levels, and perform service for the institution and professional organizations. Rank, tenure-status, and compensation are contingent upon experience.

Candidates with an interest in CPS, examples of research areas include, but are not limited to:

• Formal and model-based reasoning through all levels of design and operation
• Sensor design, including RF sensing, novel sensing devices, and application thereof
• RF and mixed-signal circuits
• Robotics, drones, and autonomous and connected vehicles
• Machine learning and signal processing as applied to cyber-physical systems
• Communications and networking to support the internet of things
• Cyber-Physical Systems with humans in the loop; human-automation interaction

Candidates with an interest in smart cities, examples of research areas include, but are not limited to:

• Advanced infrastructure systems, integrated infrastructure systems modeling, structural health monitoring, and remote sensing to support infrastructure assessment
• Connected and autonomous vehicles, active traffic control and management, multimodal travel, and disruptive transport technologies
• Hydroinformatics, active control of stormwater systems, flood warning and management systems, smart water metering, drinking and wastewater infrastructure, urban water management, remote sensing of hydrologic systems
• Modeling air quality within urban environments or buildings, sensor networks for air quality assessments, monitoring and control of vehicles emissions
• Building systems including building performance, energy monitoring systems, smart grids, and other applications of building automation systems for improved energy and water efficiency

Candidates must have a PhD in science or engineering by the time of appointment. Candidates must have a record of excellence in research, as appropriate for the candidate's rank, and a commitment to teaching excellence. Appointment with tenure requires documented excellence in research and
teaching, and an emerging national reputation. Preference will be given to candidates that are collaborative in nature and would complement or expand the school's current strengths in CPS.

To apply, candidates must submit a Candidate Profile through Jobs@UVA; search posting number 0619648. Applicants should submit a cover letter, CV, teaching statement, research statement, and names and contact information for at least three references. Questions about this position can be directed to Search Committee Chair Jon Goodall at goodall@virginia.edu.

Review of applications will begin on November 1, 2016 and will continue until the positions are filled.

The University of Virginia is an equal opportunity and affirmative action employer. Women, minorities, veterans, and persons with disabilities are encouraged to apply.