



Lehigh University invites applications to fill two tenure-track assistant or associate professor positions whose research focuses on computation, modeling, control, and optimization for advanced electricity systems. These faculty members will be part of a new university-sanctioned research cluster consisting of a multi-disciplinary team of engineering, computer science, economics, and mathematics faculty. The cluster is developing a focus on smart grids as part of a broader research agenda on “Integrated Networks for Electrical, Information, and Financial Flows.” The faculty members will be appointed to an appropriate department—for example, Computer Science and Engineering, Electrical and Computer Engineering, Industrial and Systems Engineering, Mathematics, or Mechanical Engineering and Mechanics.

The candidate must have a proven research interest in applications related to smart grids, including, but not limited to, topics such as: survivable networks, electricity pricing, combinatorial auctions, dynamic control of power and information networks, real-time scheduling and resource management, market models, visualization of electricity networks, real-time computational systems, sensor networks, communications, estimation, and real-time systems design.

The candidate’s research may draw on methodological areas including, but not limited to: optimization, simulation, statistical modeling, robust optimization, stochastic discrete optimization, algorithmic game theory, scientific computation, nonlinear networks, game-theoretical models, high-performance computing, high-precision numerical computing, algorithmic decision theory, dynamical systems, signal processing and communications, systems design theory, dynamic control of large-scale interconnected systems, and real-time operating, embedded, and decision systems.

Applicants must possess (1) an earned doctorate, outstanding academic credentials, and a demonstrated record of success, (2) excellent potential for interdisciplinary research and scholarship, and (3) the ability and commitment to teach courses at both undergraduate and graduate levels. The position will require developing an externally funded research program, supervising M.S. and Ph.D. students, and contributing to the smart grid cluster of Lehigh University through innovative research and teaching.

Lehigh University is a premier residential research university, ranked in the top tier of national research universities each year. Lehigh is a coeducational, nondenominational, private university that offers a distinct academic environment of undergraduate and graduate students from across the globe. Lehigh offers majors and programs in four colleges: The College of Arts and Sciences, The College of Business and Economics, The College of Education, and The P.C. Rossin College of Engineering and Applied Science. More than 4,700 undergraduate and 2,000 graduate students call Lehigh "home." Located in Pennsylvania’s scenic Lehigh Valley, the campus is situated on 1,600 acres in close proximity to both New York City and Philadelphia.

More information about the research cluster is available at <http://www.lehigh.edu/grid>.

Applicants wishing to meet with members of the search committee at the INFORMS meeting in Charlotte should submit their applications by November 1, 2011.

Applications received by December 1, 2011 will receive full consideration. Applications should be submitted on-line at <https://academicjobsonline.org/ajo/jobs/1182>. Applications should include a statement of interest, curriculum vita, list of publications, research and teaching statements, and the names and contact information for at least three references. In addition, applicants should specify a preferred home department. Inquiries may be addressed to Profs. Larry Snyder (larry.snyder@lehigh.edu) or Garth Isaak (gisaak@lehigh.edu).

Lehigh University is an affirmative action/equal opportunity employer. Lehigh offers excellent benefits including domestic partner benefits. For further information see: <http://www.lehigh.edu/~inprv/faculty/worklifebalance.html>.