

## **Assistant Professor, TAE / Smart Energy**

The Department of Electrical and Computer Engineering at Binghamton University (one of the four SUNY University Centers) invites applications for a tenure-track faculty position at the rank of assistant professor for fall 2015. ECE department offers academic programs at the BS level in electrical engineering and computer engineering, MS programs in electrical engineering and computer engineering, and a PhD program in electrical engineering. Currently the program has over 350 undergraduates, over 150 master's students, and over 60 PhD students, taught and mentored by 20 tenure/tenure track faculty. The ECE department is located in a new, well-equipped research building. Primary areas of research conducted by faculty and students include: (1) DSP & Communications, (2) Power & Energy (3) Information Security, (4) Computer Design, (5) Micro & Opto-electronics, and (6) Controls & Laser Communication. More details about the ECE department can be found at <http://www.binghamton.edu/ece>.

The position will be affiliated with the Smart Energy Transdisciplinary Area of Excellence (TAE), which is one of five TAEs that Binghamton University has identified for growth under the auspices of its SUNY2020 plan. Go to <http://www.binghamton.edu/tae/> for more information on the energy TAE. The successful candidate will contribute to the development of this TAE as an area of intensive multidisciplinary research and teaching. The search committee will include members of the Smart Energy steering committee.

The position is focused on power electronic circuits and systems applications for energy generation, storage, distribution, management, and control, or closely related areas; a secondary interest is in the area of low-power electronics aimed at developing efficiently operating electronic systems, including data centers, by controlling resources and managing workloads to achieve optimal energy consumption. Ideally the research area will have synergy with our existing faculty research in power/energy systems, smart grid, ultracapacitor energy storage and photovoltaic energy conversion.

The successful applicant for this position will be expected to develop an externally funded research program and have a commitment to excellence in teaching at the BS, MS, and PhD levels.

Qualifications for the position include an earned PhD in electrical or computer engineering or closely related field, excellent communication skills, and a strong commitment to teaching and research; some industrial experience is preferred.

Applicants should submit **one** document that includes: (1) a letter of application, (2) a curriculum vitae (including a list of publications), (3) descriptions of plans for research, (4) a statement of teaching interests, and (5) the names and contact information of at least three references.

In the first paragraph of your letter of application, please include a single sentence stating your primary teaching interest and a single sentence stating your primary research interest.

To apply now, go to: <http://binghamton.interviewexchange.com/>

**About Binghamton University:** Binghamton University has built a reputation as a world-class institution that combines a broadly interdisciplinary, international education with one of the most vibrant research programs in the nation. Binghamton is proud to be ranked among the elite public universities in the nation, challenging our students academically, not financially. The result is a unique, best-of-both-worlds college experience. Located in Binghamton, NY, we are ideally situated in the high-tech heart of the state. Industry partnerships, class projects and internship opportunities provide a wealth of hands-on experience for graduate and undergraduate students alike. Binghamton borders the scenic Finger Lakes region of New York.

Our academic culture rivals a first-rate private university - rigorous, collaborative and boldly innovative -- while our campus culture exemplifies the best kind of public university experience: richly diverse students, active social life and deep engagement with the community.

Our students, both undergraduate and graduate, work one-on-one with an exceptional faculty that includes innovative scientists and groundbreaking scholars. They take advantage of special academic opportunities like combined degrees, foreign language study groups and an unparalleled international education program.

**Commitment to Diversity and Inclusiveness:** It is the policy of Binghamton University to provide for and promote equal opportunity employment, compensation, and other terms and conditions of employment without discrimination on the basis of age, race, color, religion, disability, national origin, gender, sexual orientation, veteran or military service member status, marital status, domestic violence victim status, genetic predisposition or carrier status, or arrest and/or criminal conviction record unless based upon a bona fide occupational qualification or other exception.

The Watson School is dedicated to the goal of building a diverse and inclusive teaching, research, and working environment. Potential applicants who share this goal, especially underrepresented minorities, women and persons with disabilities, are strongly encouraged to apply for the position described below.