The University *of* Western Ontario

FACULTY OF ENGINEERING
Department of Electrical and Computer Engineering

Applications are invited for an NSERC Senior Industrial Chair in the area of advanced power transmission and distribution networks which may include HVDC and MVDC, energy storage, microgrids, renewable energy source integration and infrastructure facilities, at the rank of Professor, effective July 1, 2012 or as soon as possible thereafter. The Department of Computer and Electrical Engineering in collaboration with Hydro One as the industrial partner, seeks candidates who are able to build a vision-directed, innovative and multidisciplinary approach to emerging technology in an effort to achieve a reliable, environmentally friendly, efficient, self-diagnosing and self-healing grid.

The Department seeks to appoint an energetic and dynamic candidate who will be able to lead an ambitious program of research in modern power systems engineering. Through the Chair program, it will be possible to (1) create a critical mass in the area of power system protection, automation and monitoring for a smart grid environment by building on existing strengths in the area of power systems engineering, communication and networking, and software engineering at Western (2) establish a much needed training ground for HQP to supply the Canadian power industry (3) enhance the competitiveness of the Canadian power industry on the world stage by enhancing existing technologies and developing new ones (4) assist the Canadian power industry to solve technical problems through fundamental and applied research and development; and (5) promote close collaboration between researchers in industry and academia.

Hydro One was one of the very few electric utilities to recognize the above mentioned issues and showed strong leadership to address this challenge. Hydro One partnered with The Universities of Western Ontario and Waterloo and provided strong support to the development of power programs at both universities. Enabling the connection of clean and renewable generation to the province's electricity grid is a priority for Hydro One. Building new transmission products will support the government's plan to build a clean economy, create green collar jobs and help reduce Ontario's dependency on non-renewable electricity sources, such as coal.

The changes taking place currently in power systems engineering require knowledge and skills from a wide range of subject areas including power system transmission and distribution, protection, digital systems, communication and networking, and software engineering. Many of these skills are available in the Faculty of Engineering at Western. Through this Chair program it will become possible to build a strong sustainable research network among relevant faculty members far beyond the five year duration of the program. Such a network of researchers will be able to make significant contributions to the Canadian power industry. The successful candidate will be expected to contribute substantially to the development of this program as well as to the research strengths of the Department of Electrical and Computer Engineering and Hydro One. The candidate will have a Ph.D. degree in Electrical Engineering, or a closely related discipline with an outstanding record of research and publication, and research expertise related to power systems, protection, automation, and monitoring of emerging power systems. The appointee will be expected to participate in the normal administrative, educational and professional activities of the Department, Faculty and University. The successful applicant will be expected to teach undergraduate and graduate courses in the core areas of power systems engineering as well as classical aspects of power systems such as: dynamic behaviour, stability and control of power systems. Commitment to, and eligibility for registration as a Professional Engineer in Ontario is required for this appointment.

Situated in picturesque London, Ontario, a city with a population of approximately 350,000 along the banks of the Thames River, the University of Western Ontario is a prominent academic institution that has made a commitment to excel as a research intensive university. The Department of Electrical and Computer Engineering (http://www.eng.uwo.ca/electrical/) is one of four Departments within the Faculty of Engineering (http://www.eng.uwo.ca) at Western.

Those applying for these positions should forward Curriculum Vitae, a statement of research and teaching interests, and the names and addresses of three referees to:

Chair, Appointments Committee
Department of Electrical and Computer Engineering, TEB279
The University of Western Ontario
1151 Richmond Street North
London, Ontario, Canada N6A 5B9

We also welcome e-mail inquiries and submissions which should be sent to melissa.harris@uwo.ca. Consideration of applications will commence December 1, 2011 and will continue until the position is filled.

Positions are subject to budget approval. Applicants should have fluent written and oral communication skills in English. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Western Ontario is committed to employment equity and welcomes applications from all qualified women and men, including visible minorities, aboriginal people and persons with disabilities.