The University *of* Western Ontario

FACULTY OF ENGINEERING

Department of Chemical and Biochemical Engineering
and

Department of Civil and Environmental Engineering

Applications are invited for a NSERC Senior Industrial Research Chair in Next Generation Solutions for Water Problems at the rank of Associate Professor or Professor, effective July 1, 2011 or as soon as possible thereafter. The Faculty of Engineering, The University of Western Ontario, in collaboration with Trojan Technologies as the industrial partner, seek candidates who are able to build a vision-directed, innovative and multidisciplinary approach to emerging water problems, and are able to lead a collaborative research program that results in significant impact on the targeted water problems.

In view of the increasing shortage of useable water in many parts of the world, the research program envisaged under the Chair will focus on water in general, but preferably on problems related to wastewater reuse: treatment, recycling and recovery of value from wastewaters. It is recognized that the drivers for such research lie in the issues of sustainability: including quantity of suitable quality water for various applications, optimization at the water-energy nexus, reduction of the carbon footprint, achievement of competitive life cycle cost assessments compared to alternative approaches and a shift towards “green” solutions that minimize human and environmental health risks. The initial impacts of such research are expected to be attainable within 3-5 years and achieved through implementation of solutions, preferably in close collaboration with the industrial partner.

Candidates are expected to have earned their doctorate and preferably had a number of years of academic faculty experience at the associate professor or higher level and/or industrial experience. The candidates will already have had notable achievements in innovation (bringing ideas to impact), and a history of collaboration with a multidisciplinary community (academic, industrial, international) throughout the innovation process. The candidates will by nature be communicators, collaborators, and inspirational leaders of the initiatives they undertake to define, assess, validate and promote commercialization of the Next Generation Solutions for Water Problems.

Within Western and the broader academic community, the successful candidate will find opportunities to create new collaborative ventures with other colleagues to tackle a broad suite of water-related challenges including sustainable technology and business models, toxicology, epidemiology, sociology, environmental law and others. The successful candidate will also find Trojan Technologies to be a very supportive industrial collaborator with which to discuss and prioritize ideas, evolve targeted programs, prepare funding applications to external agencies, share research facilities, and enrich the training of students and postdoctoral fellows.

Depending on the successful candidate’s background, the home department may be in Chemical and Biochemical Engineering or Civil and Environmental Engineering. However, the individual is expected to conduct water related research that cuts across a number of engineering disciplines, and must also be willing to teach courses in the two

Departments. The candidate will be expected to participate in administrative activities of the Departments of Chemical and Biochemical Engineering and Civil and Environmental Engineering, the Faculty of Engineering and University, along with other educational, professional, and community service. Industrial experience is highly desirable. Eligibility for registration as a Professional Engineer in Ontario is required for this appointment.

Situated along the banks of the Thames River in picturesque London, Ontario, a city with a population of approximately 350,000, The University of Western Ontario is a prominent academic institution routinely ranked as a top research-intensive university in Canada and is committed to excel as a leading research institution internationally. Water related research in the Faculty of Engineering has grown over the years with significant investments in wastewater research.

Trojan Technologies (www.trojanuv.com), located in London, Ontario, currently employs more than 600 people around the world, with roughly 400 in London. The firm is focuses on treating water of all qualities using leading environmentally friendly technology, particularly, but not exclusively, with ultraviolet light. International recognition of Trojan as a technology development and business leader was received in 2009 through Trojan's receipt of the Stockholm Industry Water Award. Trojan's scientists and engineers collaborate with researchers at universities and laboratories world-wide, are in some cases adjunct professors (of the University of Western Ontario and elsewhere) and publish in the peer-reviewed literature. Trojan's support for the Chair is consistent with the objective of building a world-class centre for research and commercialization of technologies for water/wastewater treatment in London, Ontario, with the full partnership of the City of London and the University of Western Ontario and other collaborating partners.

Candidates who share Western Engineering and Trojan Technologies' commitment to excellence in wastewater research and education, and are eager to pursue a rewarding academic career, are encouraged to forward their curriculum vitae, statements of research and teaching interests and the names and addresses of at least three referees to:

Chair of Joint Appointments Committee
c/o Department of Civil and Environmental Engineering
The University of Western Ontario, London, Ontario, Canada N6A 5B9

We also welcome e-mail inquiries and submissions, to be sent to: cwalter@uwo.ca

Consideration of applications will commence on January 15, 2011 and will continue until the position is filled. The position is subject to budget approval. Applicants should have excellent 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.