



Ph.D. Student Researcher Positions

Nano-enhanced Membrane Science and Technology for Water Sustainability

The Department of Civil and Environmental Engineering at the University of Maryland at College Park invites applications for a doctoral-level graduate student position starting in the fall 2012 semester. The successful candidate will be expected to work on exciting National Science Foundation-funded research on membrane-based water separation, with emphases on nanotechnology, physical/chemical/biological processes, and novel material fabrication. For current research activities in the Membrane Innovation Laboratory at the University of Maryland, please visit <http://mi.umd.edu>.

Membrane technology has demonstrated its superior capability of removing a vast array of water-borne contaminants and thus plays an increasingly important role in drinking water purification and wastewater reuse. Membrane technology has also found exciting applications in other areas, including renewal energy generation, biosensing, and new medical devices (such as artificial organs, drug delivery).

Students will have access to state-of-the-art research facilities and have an excellent opportunity to develop the next-generation, nano-enhanced membrane technology that will drastically improve contaminant-removal capability and energy efficiency. Besides, students will have unique opportunities to collaborate with outstanding researchers both on the University of Maryland campus and at nearby national laboratories.

Applicants should have an educational background (preferably with an M.S. degree) in environmental engineering, chemical engineering, materials sciences, or a related field. Hands-on experiences in membrane processes, thin-film synthesis, and/or nanomaterials are preferred but not required. A full financial support (tuition waiver plus a competitive living stipend) will be provided for the successful candidate. Self-motivated, dedicated students are encouraged to contact Dr. Baoxia Mi (bmi@umd.edu) by sending a resume along with a brief statement of career/research objectives. For general graduate admission requirements, please visit <http://www.civil.umd.edu/grad/admissions.html>

The University of Maryland is located in College Park, a small college town just outside of Washington D.C., the national capital, which provides a rich cultural life along with several world-class (but free!) museums of the Smithsonian Institution.

Please Note

*Candidates must be US citizens, nationals, or permanent resident aliens
and must be planning to pursue a Ph.D. degree starting Fall 2012.*

Applicants from underrepresented minorities are particularly encouraged.