

MICHIGAN STATE UNIVERSITY

January 14, 2012

Postdoctoral research position in membrane separations

We are seeking a highly motivated postdoctoral research associate to work on the development, characterization and testing of new membrane materials for applications in water treatment and reuse. Research topics include materials design of polymer nanocomposite membranes, development of functional coatings for ceramic membranes, and evaluation of novel membranes in standalone and hybrid separation processes. The primary responsibilities of the postdoc will include conducting research, supervising Ph.D. students, assisting with laboratory management and project administration, and contributing to the development of research proposals.

Required qualifications

- 1) A Ph.D. degree in Environmental Engineering, Chemical Engineering, Materials Science, or a related field.
- 2) Demonstrated experience with
 - design and operation of membrane separation systems;
 - synthesis of polymeric and polymer nanocomposite membranes;
 - spectroscopy and microscopy methods for membrane and nanomaterials characterization (e.g., SEM, TEM, AFM, XRD, XPS, FTIR, DLS);
 - analytical methods for environmental analyses (e.g., HPLC, ICP, AA).
- 3) Excellent written and oral communication skills.

Expertise in ceramic membrane preparation would be helpful but is not a requirement.

Appointment

The appointment will be in the Department of Civil and Environmental Engineering. The postdoc will work under the supervision of Prof. Vlad Tarabara and will collaborate with multiple research groups at MSU that form the recently funded Strategic Partnership “Advanced membrane technologies for a sustainable future.” Duration of the appointment will be initially for one year with possible extension for up to three years depending on performance. The position start date is April 2, 2012 or as soon as possible thereafter. Applications will be accepted until the position is filled. The compensation package is competitive.

Contact

Interested persons should send curriculum vitae, a brief statement of career goals and research experience, and contact information of three to five professional references to Prof. Tarabara via email: tarabara@msu.edu.

MSU is an equal opportunity employer. Applicants who are not U.S. citizens or permanent residents must provide documentation verifying employment authorization in the United States.



COLLEGE OF **ENGINEERING**

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