Assistant Professor, Biosensors and Bionanotechnology

The Department of Bioproducts and Biosystems Engineering (BBE) seeks candidates for a tenure-track position of assistant professor with research and teaching responsibilities. Research emphasis will be in the area of development, use and applications of sensing and bio-nano technologies for biological molecules, processes and organisms in the area of food security, food safety, health and nutrition, and the environment. Sensing technologies include, but are not limited to electrochemical, optical, thermal, mechanical or other transduction sensing technologies. Teaching responsibilities for this position will be in related areas in the department including food engineering, food systems, and other courses at the undergraduate and graduate level. Of particular interest are candidates with expertise in microsystems and nano-scale engineering and its emerging application to microfluidics, micro – and nano-electronic devices, bionanotechnology, and biosensors as they pertain to biological, food and environmental areas. Development of a record of externally funded research from federal agencies and industry is expected. In addition to developing an independent research, the candidate will be expected to participate in collaborative research activities with faculties in BBE, Department of Food Science and Nutrition, and relevant department in the University.

The Nanofabrication Center at the University of Minnesota is a state-of-the-art facility dedicated to the design, fabrication, and testing of small scale devices. Tools and expertise to help researchers develop new micro- and nanoscale technologies are available. In addition 15,000 square feet of nanotechnology research labs (including a 5,000-square-foot clean room) will be added with the completion of the Experimental Physics and Nanotechnology Building.

Qualifications:
Required: PhD degree in any field of Engineering, Physics, Chemistry, Environmental Science or related field. Research experience with nano-sensors is essential. Strong written communication skills.
Preferred: Preference will be given to candidates with a strong publication record and proven ability to work on multidisciplinary projects; evidence of potential to develop interdisciplinary research programs at the forefront of the discipline; evidence of strong teaching ability and verbal communication skills; evidence of experience in obtaining external funding; interest in, experience with, and commitment to diversity and inclusiveness; post-doctoral experience in issues related to nano-sensors/nanotechnology.

Application Instructions
Interested applicants should submit: curriculum vitae, cover letter that includes a statement of research and teaching interests and background, as well as how you meet the required qualifications; official undergraduate and graduate transcripts; copies of relevant publications, reports, accepted/in-press publication, a summary or abstract of PhD dissertation; names, addresses, email addresses and telephone numbers of three professional references. Applicants should upload their application at the U of MN employment website; requisition #182073. The position is available in the spring or fall of 2013 and will remain open until filled. Visit our website www.bbe.umn.edu for further information, or contact the Search and Selection Committee Chair, Dr. Mrinal Bhattacharya at bhatt002@umn.edu or 612-625-5234.

NOTE: In support of the College’s strong commitment to and respect for diversity and cultural competence, finalists invited for interviews will be asked to provide a statement describing interest, experience with, and commitment to diversity and inclusiveness.

As an institution committed to demonstrating excellence through diversity, the College of Food, Agricultural and Natural Resource Sciences and the University are committed to hiring a diverse faculty and staff, and actively encourages candidates from historically underrepresented groups to apply.