HARVARD T.H. CHAN SCHOOL OF PUBLIC HEALTH

Center for Nanotechnology and Nanotoxicology
Molecular and Integrative Physiological Sciences
Department of Environmental Health
665 Huntington Avenue, Boston, MA 02115-6021

tel: (617) 432-7990
fax: (617) 432-3468

Post doctoral research fellow position in the area of Nanoparticle Synthesis and Characterization

Job Description: A postdoctoral research fellow position is available at the Center for Nanotechnology and Nanotoxicology at Harvard T. H. Chan School of Public Health (www.hsph.harvard.edu/nano) under the supervision of Professor Philip Demokritou. The Center has currently a number of interdisciplinary research projects on applications and implications of nanotechnology funded by NIH, NIEHS, USDA, NSF, NIOSH and industry

The candidate will work on **Engineered Nanomaterial (ENM) Synthesis and Characterization** with particular emphasis on understanding the fundamental rules of nanotoxicology and develop safer by design approaches. The candidate is anticipated to work on synthesis of ENMs including Metal/Metal Oxide Nanoparticles with various methods and rigorously characterize them in terms of chemical (composition, purity etc) physical (density, size, shape, etc) and morphological (porosity, aggregations etc.) with an array of methods (TEM/EDS, XRD, XPS, BET, FTIR, etc.). He/She is also expected to collaborate with other researchers in the Center working on Nanotoxicology research, participate in proposal preparation and work with minimum supervision.

In addition to interacting with key academic leaders in the field on nanotechnology and nanotoxicology, fellows are welcomed by a structure that supports their career development through relevant workshops and seminars, networking etc. Salary and benefits are competitive and commensurate with experience. For more information, visit http://hsph.harvard.edu/nano/.

Minimum Skills Requirements: Extensive experience in engineered nanomaterial synthesis and characterization is a must. Experience in toxicology/biology is a plus.

Requirements:

- PhD or equivalent degree in Materials Science and Engineering, Chemical Engineering, Chemistry or closely related disciplines.
- Strong analytical skills on Materials Synthesis and Characterization.
- Experimental skills in materials synthesis (hydrothermal, sol-gel, electrospray, Flame Spray pyrolysis etc.)
- Hands-on experience on materials characterization techniques (TEM, SEM, XPS, IR, Raman, XRD, etc).
- Capable of working independently in a team environment with minimum supervision.
- High quality first author publications in peer-reviewed journals.
- Excellent English communication skills both written and verbal.
- Strong work ethic, self-motivation.
- Ability to interact well with others.
- Authorization to work in the United States (citizen, green card, or valid visa/OPT) is a plus.

Please submit your application to include a full CV and three recommendation letters via email to: pdemokri@hsph.harvard.edu

Harvard is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are strongly encouraged.