



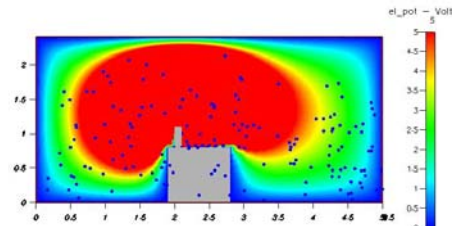
## Fellowship Program in Microbial Risk Assessment for Built Environment

### *Integrated Academic/Employment Opportunities*

With support from the Department of Homeland Security, Drexel University is offering a fellowship program in Microbial Risk Assessment for Built Environment (MRABE). The fellowship program will integrate 1) academic coursework, 2) research at the Center for Advancing Microbial Risk Assessment, a Drexel-based Environmental Protection Agency and Department of Homeland Security Research Center of Excellence, and 3) two, 6-month professional internships at Homeland Security Science Technology Engineering Mathematics sites. Appropriate sites for completion of the internship include government agencies, such as the Department of Homeland Security and Environmental Protection Agency, national laboratories, and university-based Department of Homeland Security Centers of Excellence.

### Background

In the United States, people often spend 90 percent of their lifetime indoors. The safety and protection of the built indoor environments greatly affect public safety and homeland security. To assess and manage biological and chemical risks in an indoor environment, knowledge about indoor air circulation and the interaction between air circulation and building systems is crucial. Furthermore, the field of microbial risk assessment, particularly for agents of concern for bioterrorism, is more recent. This is an interdisciplinary field drawing on knowledge and techniques from areas as diverse as information sciences, microbiology, biochemistry, engineering, medicine, public health, and sociology. The MRABE Fellowship Program provides a multi-disciplinary environment for students to be trained as the much needed next generation homeland security professionals.



### Research Projects

Potential research projects include: 1) Development of Meta-models for Bioaerosol Fate and Transport in an indoor space; 2) Transport of micron and submicron size particulates in a recirculating indoor environment; and 3) Microbial decontamination for indoor environment.

### Support

Support up to **\$2,300/month** (tuition and stipend) is available for graduate students. Additional support is also available for students to attend professional conferences.



### Qualifications

Fellows must be **U.S. citizens**. This program is open to students with backgrounds preparing them for advanced study of quantitative microbial risk assessment and indoor contaminant dispersion study, such as science, engineering, and mathematics. Students will pursue a M.S. degree at Drexel University. Currently enrolled graduate students must have the support of their academic advisors.

### Contact Information

Fellowships are available starting in Spring term 08-09. Interested students should contact Dr. Jin Wen (phone: 215-895-4911; email: [jinwen@drexel.edu](mailto:jinwen@drexel.edu)) for further information and for application materials.