We announce the opening of registration for our annual, one-week summer course, “Introduction to Microfluidics Technology” to be held at Brandeis University, near Boston, MA.

The microfluidics course is a hands-on laboratory course sponsored by the National Science Foundation’s Bioinspired Soft Materials Research Science and Engineering Center (MRSEC) at Brandeis. It will be offered during the week of June 22 - 26, 2015. It is intended for graduate students, post docs, faculty and industrial scientists and engineers interested in utilizing microfluidic technology in their work, in both physical sciences and life sciences, and does not assume any specific prerequisites.

“Introduction to Microfluidics Technology” (June 22 – 26, 2015) will be taught by Dr. Dongshin Kim [http://goo.gl/9a6y7Z](http://goo.gl/9a6y7Z).

A $750 fee will cover the course and housing in double-occupancy rooms with on-site breakfast and lunch from Monday through Friday. Single rooms are not available. Local students who do not need housing will pay a non-resident fee of $400.

Please bring this course to the attention of any appropriate scientists and engineers.

See the information below for a detailed course description.
**Application Instructions**

To apply, please email Katie Collings, (katie55@brandeis.edu) by March 15, 2015, with all of following materials attached in one email. Please write “MRSEC Summer Course Application” in the subject line.

- Name and gender (for housing)
- Housing needs (double or no-housing needed)
- Current CV
- Field of research
- Research advisor name (if applicable)
- A short paragraph explaining how your research work will benefit from the course for which you are applying

In addition, please have your research advisor write an email in support of your application from his/her university account. This email need only state that he/she approves of your attendance.

If accepted, students are required to take the online environmental health and safety trainings offered by the Boston Consortium (http://goo.gl/SkaXdU) before the second day of the course.

Applications will be reviewed on a rolling basis, and suitable students will be admitted as selected throughout the months of March and April. Further information for those admitted will be provided. If you have questions before applying, please email the Brandeis MRSEC Education Director, Dr. Anique Oliver-Mason (aniqueom@brandeis.edu).
MRSEC Summer Course: Introduction to Microfluidics Technology

Course Objectives:

This course is an introduction to the microfabrication technologies available to build microfluidic devices. This course has been created in response to the great interest from industry, government and academia in the field of microfluidics. We will build several microfluidic devices to understand the microscale phenomena and their applications. Throughout the course, we will place an emphasis on hands-on experimentation with microfluidic systems where laminar flow, surface tension, and molecular diffusion dominate.

Prerequisites

To get the most out of this course, it will help if you have some familiarity with basic conservation equations of mass, momentum, and heat, and classical thermodynamics. Some chemistry laboratory experience is recommended but not required.

However, students are required to take the online environmental health and safety trainings offered by the Boston Consortium (http://goo.gl/SkaXdU) before the second day of the course.

Course Description

The course is intended as an introduction for scientists and engineers interested in utilizing microfluidic technology in their research work.