



MICROFLUIDICS IN BIOMEDICAL SCIENCES TRAINING PROGRAM (MBSTP)



The University of Michigan

Microfluidics in Biomedical Sciences Training Program

930 N. University

Ann Arbor, MI 48109-1055

Robert T. Kennedy, Director

phone: (734) 615.4363

e-mail: rtkenn@umich.edu

MEMO TO: MBSTP Faculty and Graduate Student Directors

FROM: Robert T. Kennedy, Program Director

DATE: May 18, 2011

RE: **CALL FOR APPLICATIONS, Due June 17**

1) Student support: The Microfluidics in Biomedical Sciences Training Program (MBSTP) is pleased to request applications for new students for the 2011-2012 academic year. Students accepted to the program receive tuition and stipend support for one year with possibility for renewal in a second year. Support for this term begins September 1, 2011. Please consider nominating students from your group, and encourage other students and faculty in your department who are not yet members of MBSTP to apply as well. Students may apply directly to the Program and do not need to go through their home department.

2) Eligible students. We support graduate students who are interested in developing, studying, or applying microfluidic or biosensor technologies in biomedical sciences, broadly defined. Students may be enrolled in the College of Literature, Science, and the Arts (LSA), the College of Engineering, or the Medical School. Departments involved include Chemistry, Physics, and Molecular, Cellular and Developmental Biology (MCDB); Biomedical Engineering, Chemical Engineering, Mechanical Engineering, Electrical Engineering and Computer Science, and Macromolecular Science and Engineering; Biological Chemistry, Cell Development, Neural Biology, Cellular and Molecular Biology, Human Genetics, Immunology, Microbiology and Immunology, Neurosciences, Pathology, Pharmacology, and Physiology. Students who are interested, but are not enrolled in one of these departments, may also apply and be admitted to the program at this time. Students must be either a U.S. Citizen or have Permanent Residency in the United States.

3) Application process: Please send applications *directly* to my assistant, Lorie Kochanek (lorieann@umich.edu) no later than June 17, 2011. Application instructions are provided at the end of this memo. Other details can be found at <http://www.umich.edu/~ufluids/about.html>.

The MBSTP Executive Committee will meet in July to evaluate the applications and to select next academic school year's class. Priority in selection will be given to students entering their second year of graduate school, although students at all levels will be considered. In selecting students, the Executive Committee attempts to maintain a balanced representation of the various disciplines, schools, and departments.

3) About the Program. Student admitted to the MBSTP will participate in several training activities designed to broaden their experience and training. Activities include: monthly journal club, seminar series, annual symposium, an Interdisciplinary Research Requirement, and Workshop on Microfabricating Microfluidic Devices. Students will also take the program's core course, ChE 696

Microfluidic Science and Engineering, one Graduate Level Biology or Biomedical Science course, and the medical school course in Research Responsibility and Ethics (PIBS 501/503). Several elective courses are also encouraged. List of eligible courses are available upon request. The interdisciplinary requirement can take a variety of forms. Examples include an engineering student working with a biomedical laboratory, a physiology student collaborating with a microfluidics technology lab, and an industrial internship. The experience must be approved by the MBSTP executive committee and is expected to provide at least 6 weeks of time outside the home laboratory. Students in the Program must have at least one MBSTP faculty member other than their thesis advisor on their dissertation committees. Where feasible, a collaborator or co-mentor from another department should also be on the dissertation committee. This person will help guide the interdisciplinary requirement.

More details about the activities, as well as faculty requirements, can be found at www.umich.edu/~ufluids/about.html.



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To apply to the program, students should send the information below to Lorie Kochanek by June 17, 2011. Applications may be sent electronically (preferred) or by campus mail at:

Lorie A. Kochanek
Program Coordinator, MBS TP
Department of Chemistry
930 North University Avenue, Room 1500q
Ann Arbor, MI 48109-1055
734.615.7309

lorieann@umich.edu

Application Materials:

- Cover sheet (next page)
- A letter from the student describing their interest in the program. The letter may include any activities sponsored by MBSTP that they have participated in already. The letter should also describe their research plans and accomplishments with an emphasis on how it integrates microfluidics and biomedical sciences. Two page limit.
- A copy of the student's original application package to Rackham Graduate School including transcripts, GRE scores, and list of courses taken.
- Student's Current Rackham Transcript
- Student's Curriculum Vitae (C.V.)
- A letter of support from the student's thesis adviser or another faculty member. This letter, which may be sent separately, should describe the student's strengths, potential for independent research, and interest in the program. The adviser should also state that they agree to participate in the program as outlined under "Faculty Requirements" at <http://www.umich.edu/~ufluids/about.html>. The letter should also indicate support available to the student for their work.



**MICROFLUIDICS IN
BIOMEDICAL SCIENCES
TRAINING PROGRAM (MBSTP)**



MBSTP Application Coversheet

STUDENT NAME: _____

Student Department: _____

Student Advisor: _____

- Cover letter describing interest in the program and research accomplishments. Two page limit.**
- Original application package to Rackham Graduate School including transcripts, GRE scores, and list of courses taken.**
- Current Rackham Transcript**
- Curriculum Vitae (C.V.)**
- A letter of support from the student's thesis adviser or another faculty member.**
 - Check here if supporting letter is arriving under separate cover. It is the responsibility of the student to ensure that the letter arrives by the posted deadline.**
- Please answer the following questions:**
 - 1. Have you been supported by another training grant while at UM? If so, please name.**
 - 2. Have you received other fellowships? If so, please indicate.**
 - 3. What year are you in your Graduate Program?**