

**Research Experiences for Undergraduates in
Complex Fluids and their Applications**
Application Form – Summer 2009
Program Dates: June 1 to August 7, 2009
Application Deadline: March 16, 2009



Name: _____
Last First Middle

Social Security Number: _____

Citizenship: U.S. _____ Permanent Resident _____ Other (specify) _____

Current Address: Phone: _____	Permanent Address: Phone: _____
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e-mail address: _____

Colleges or Universities Attended:

Name/Location	Major/Minor	GPA/Scale	Dates Attended From/To*
		/	
		/	
		/	

*If currently attending listed institution, give date of expected graduation (students who will have graduated prior to August 2008 are not eligible to participate)

Gender (optional): (M/F) _____ **Ethnic Origin (optional):** _____

Reference:

List the name and institutional affiliation of the person who you have asked to provide a letter of recommendation. Please provide him/her with the recommendation form that is attached to this application packet. The form and letter should be mailed to: Ramesh Agarwal, REU Program in Complex Fluids, Campus Box 1185, Washington University, One Brookings Dr., St. Louis, MO, 63130.

Name: _____ **Affiliation:** _____

Applicant Signature Date

Please include the following additional information:

- copies of all college transcripts
- a statement describing your interests in complex fluids, including your career goals, plans for postgraduate education, and relevant work experience; also, describe any academic achievements, memberships in professional organizations and honorary societies, and any other information that you think should be considered in evaluating your application
- Indicate your research preferences by selecting from the attached list

**Washington University Research Experiences for Undergraduates (REU) in
Complex Fluids and their Applications**

Available Research Areas

Please rank your **top three** research preferences in the list below. More detailed project descriptions can be obtained from the REU web page (<http://www.me.wustl.edu/REU/>):

- Making Liquid Crystal Droplets inside Micro-fluidic Channels
- Microfluidics in Fuel Cell Applications
- Self-Assembly and Phase Transitions in Surfactant Solutions
- Flow Transitions in Polymer Solutions
- Dewetting and Pattern Formation in Nanoscopic Films
- Nanoparticle Transport in Microscale Condensation Particle Counter
- Nanoparticle Formation in Chemically Reactive Flow Systems
- Gas Flows in a Micro-Devices
- Forced and Natural Convection Heat Transfer in Systems Filled with a Nanofluid
- Simulation of Protein-Surface Interactions in Aqueous Systems
- Computational Design of Heterogeneous Catalysts for Biofuels Production
- Multiphase Flow of Injected CO₂ in Geological Storages

**Research Experiences for Undergraduates
in Complex Fluids and their Applications**

**Reference Form
Due: March 16, 2009**



Applicant's Name: _____

To Be Completed By Applicant:

I understand that Federal Law provides me, after enrollment, with a right of access to this reference form and that no school may require me to waive this right.

I hereby waive / do not waive (circle one) my right of access to this reference form

Date: _____ Signature: _____

Referee:

Please complete this reference form and attach a brief letter of recommendation describing your evaluation of the applicant's capabilities, strengths, and weaknesses. Specifically address the student's ability to successfully conduct independent research and to benefit from this program. Please send your recommendation directly to the address listed above by March 16, 2009.

Summary Evaluation:

Please rate the applicant's overall scholarly ability in comparison with other students with the same amount of experience and education:

outstanding	top 5%
very good	5% - 15%
good	15% - 25%
average	25% - 50%
below average	bottom 50%

Signature _____ Date _____

Name (printed or typed) _____ Title _____

Department _____ Institution _____

Mail Completed Form to: REU Program in Complex Fluids (Attn: Dr. Ramesh Agarwal)
Campus Box 1185
Washington University
One Brookings Dr.
St. Louis, MO, 63130