

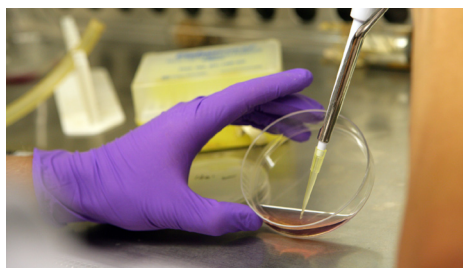
Sponsored by the University of Maryland College of Chemical and Life Sciences through a grant from the Howard Hughes Medical Institute Undergraduate Science Education Program.

[www.chemlife.umd.edu/hhmi/jumpstart](http://www.chemlife.umd.edu/hhmi/jumpstart)



**THE JUMP START PROGRAM** invites 100 promising young scientists to participate in a weeklong summer science immersion program at the University of Maryland. The program is jointly sponsored by the University of Maryland College of Chemical and Life Sciences and the Howard Hughes Medical Institute (HHMI). HHMI supports programs that promote knowledge of the basic sciences and enhance the training of future biomedical scientists.

Students considering a career in the sciences can learn the tools of modern life sciences research and experience the excitement of discovery. In addition to carrying out laboratory investigations, students will participate in seminars and professional development workshops. The program is free for all participants.



## CHOOSE FROM THREE EXCITING PROGRAMS

There are three themes planned for the summer 2009 Jump Start Program:

### **Biomedical Science** (offered Sessions 1, 2 & 3)

Students will learn how cellular and molecular techniques are changing the way we diagnose and treat disease. The program includes a field trip to the National Museum of Health and Medicine. Due to the intensive nature of this session, we recommend that applicants have completed Advanced Placement biology or the equivalent.

### **Forensic Science** (offered Sessions 1 & 2)

Students will learn modern biological methodologies (including analytical chemistry, entomology, DNA electrophoresis) that are used to solve crimes.

### **Animal Behavior and Physiology** (offered Session 3)

This program will focus on the behavioral and physiological characteristics of animals that allow them to be successful in their respective environments. The program includes a field trip to the National Zoological Park.



**SESSION DATES:** **Session 1:** July 13-17, **Session 2:** July 20-24, **Session 3:** July 27-31

Each one-week session will run from 9:00 AM to 4:00 PM each day (M-F). Students will have a lunch break from 12:00 PM to 1:00 PM, during which they may purchase lunch from one of the many vendors at the Stamp Student Union. Participants are responsible for transportation to and from campus each day; no on-site housing is available.



## WHO CAN APPLY

The program is open to high school students who will be entering their junior or senior year in the fall of 2009 (i.e., those who will graduate in 2010 or 2011). Far more students apply for the program than can be accommodated, so we are unfortunately unable to consider applications from freshmen and seniors.

Participants will be selected on the basis of a personal statement, high school coursework and grade point average (GPA), SAT or PSAT scores (if available), and teacher recommendations. Recommendations may come from teachers in any discipline; they need not come from science teachers.

For the Biomedical Science sessions, applicants will also be evaluated on the strength of their preparation in the biological and chemical sciences.

## HOW TO APPLY

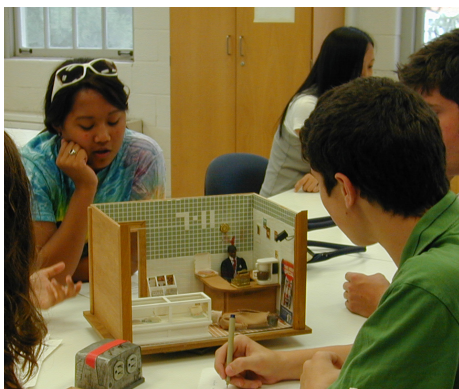
Applications should include the following:

1. An application form, available at [www.chemlife.umd.edu/hhmi/jumpstart/](http://www.chemlife.umd.edu/hhmi/jumpstart/)
2. A one to two page personal statement addressing **ONE** of the following topics:
  - *Describe a person or pivotal event that helped define your interest in science.*
  - *Tell us about something that stimulates your curiosity. Where has your curiosity led you?*
3. High school transcript (unofficial photocopy is acceptable)
4. Courses in progress and semester grades (if not included on transcript)
5. One letter of recommendation from a teacher. Letters from science teachers are preferred, but they are not required.



## DEADLINE

The online application form must be submitted and all supporting materials post-marked by March 15, 2009. Applicants will be notified of the admissions committee's decision shortly after April 15, 2009.



For more information, contact:

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Jump Start Program

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