

*Sailing through the Summer with
HCURA*



*Research Opportunities Guide
Summer 2008*



Harvard College Undergraduate Research Association HCURA



To Undergraduate Students interested in Summer Research,

Welcome to HCURA's Summer Undergraduate Research Opportunities Guide! Whether you read this with many years of research experience behind you or just the slightest curiosity of working in a lab, please know that this guide is a sure step in the right direction towards finding your ideal summer research opportunity. Members of the HCURA Executive Board 2007 compiled this list with the aim to inform students of well-known on- and off-campus programs, such as the Program for Research in Science and Engineering (PRISE) and NSF Research Experience for Undergraduates, as well as less well-known but equally rewarding opportunities such as the Zuccaire Internship Program in Paris. We encourage you to not only take a close look at familiar opportunities and research fields but also at those that are a few steps outside of your comfort zone. Summer is the perfect time to explore other fields and develop your skill set as a scientist.

Just as science is ever changing, so are the opportunities available. The HCURA Board strived to provide this initial version of guide to you before December break so you can consider these opportunities while you are at home. It is by no means a comprehensive list of research opportunities, but hopefully will become more thorough as we update it annually. We hope that this guide will also inspire you to initiate your own search to find your ideal program. Please contact HCURA through our website, www.hcura.org, to share any particularly exciting programs that you have found or participated in as this would be helpful to the entire undergraduate research community.

Research is never a one-person effort. Please contact a member of HCURA Board, your Big Sib from the HCURA Advising Program, or any of HCURA's professional advisors if you have any questions. They can help you with anything from narrowing down your interests to advising you how to format your applications. Be sure to visit the HCURA website to find helpful resources and browse through research areas database. We look forward to working with you to find your perfect summer research opportunity. Best of luck, and we wish you a great summer!

Sincerely,

HCURA Executive Board 2007

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HCURA Executive Board: Shiv Gaglani (President), Koning Shen (VP), Alex Bick (Secretary), Wendy Ying (Treasurer), Lev Shaket (Advising Program Chair), Zachary Katz (Journal Club Chair), Erica Tsacoyeanes (Social Chair), Charles Liu (Publicity Chair), Thilini Ariyawansa, June Wu, Carol Suh, Peter Cai.

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Helpful Resources

There are many other resources at Harvard and on the Internet that will help you find summer research opportunities. Please see the following list below:

Harvard College Research Opportunities – a database of research opportunities at Harvard: <http://www.funding.fas.harvard.edu/science/search.cgi>

Harvard Science – a great resource for finding researchers at Harvard and potential labs to work in: <http://harvardscience.harvard.edu/>

Harvard Office of Career Services – OCS offers a great resource to discuss and find research opportunities. A weekly science-specific listserv generally lists research opportunities as well. <http://www.ocs.fas.harvard.edu/students/career-areas.htm>.

The Reinvention Center at Stony Brook – thorough list of undergraduate research opportunities: <http://www.reinventioncenter.miami.edu/resundergrad.html>

Harvard Program for Research in Science and Engineering (PRISE)

Dates: Mid-June to late August (10 weeks)

Description: PRISE is a summer residential community of Harvard undergraduates participating in research affiliated with Harvard Faculty.. It provides social activities, community, housing and board while you conduct your independent research.

Research Area: Open to all research areas

Website: <http://priselink.harvard.edu>

Deadline: Mid-to-late February

Harvard College Research Program

Dates: Spring or Summer term

Description: The Harvard College Research Program supports student-initiated scholarly research and creative endeavors undertaken with faculty guidance.



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Funded by the Faculty of Arts and Sciences and alumni/ae donations, HCRP grants advance academic experiences outside the classroom and expand opportunities for students to work closely with faculty members. All undergraduates may apply for HCRP funding, regardless of financial need.

Research Areas: Open to all research areas.

Website: <http://www.seo.harvard.edu/resprog/hcrp.html>

Deadline: Spring: February 6, 2008; Summer: April 2, 2008

Herchel Smith Summer Undergraduate Research Fellowship

Dates: minimum of 10 weeks in Summer 2008

Description: This fellowship supports projects of a minimum of ten weeks duration in the sciences at established research centers or laboratories, domestic and international. Applicants must arrange for their own laboratory placement. Ideally, candidates will incorporate some form of Harvard faculty participation in the preparation of their proposed projects (but this is not a necessity). Selection committees will look favorably on projects that otherwise might not be feasible and that will be formative in recipients' academic careers. Strong recommendation letters help significantly!

Research Areas: Open to all research areas.

Website: <http://www.ocs.fas.harvard.edu/students/careers/science/HSmithHarvardSURF.htm>

Deadline: February 22, 2008 by 12 PM.

FAS Center for Systems Biology Summer Research Internship

Dates: June 16, 2008 to late August

Description: The Harvard Systems Biology community invites undergraduates to join research projects in a variety of science fields. The Internship provides a salary of \$4500 and will help students find housing near the Cambridge campus. Underrepresented minority students are particularly encouraged to apply.

Research Area: 12 Projects Listed on the Application



Website: <http://sysbio.harvard.edu/CSB/jobs/undergraduate.html>

Application: <http://sysbio.harvard.edu/CSB/jobs/form.htm>

Deadline: Friday 3, 2008

Harvard Stem Cell Institute Summer Undergraduate Research Program

Dates: Mid-June to mid-August (10 weeks)

Description: The HSCI SURP is an intensive research internship that provides education and laboratory training in stem cell science and technology. Undergraduates work with principle faculty from Harvard and several of its affiliated hospitals. SURP also includes a seminar series that features talks given by HSCI investigators on various topics in stem cell research, as well as a Stem Cell Companion Course that introduces the interns to the multitude of techniques used in stem cell research. A stipend of \$4,320 is provided.

Research Area: Stem cell biology

Website: <http://www.hsci.harvard.edu/education/internship>

Deadline: Mid to late February 2008

National Science Foundation Research Experience for Undergraduates (REU)

Dates: Mid-June to Late August

Description: REU consists of many different sites in which about 10 undergraduates work on a particular summer project supported by NSF stipends. Each student is associated with a specific research project, where he/she works closely with the faculty and other researchers. Students are granted stipends and, in many cases, assistance with housing and travel. Undergraduate students supported with NSF funds must be citizens or permanent residents of the United States or its possessions. An REU Site may be at either a US or foreign location.

Research Areas:

Astronomical Sciences

Atmospheric Sciences

Biological Sciences

Chemistry

Computer and Information Science

and Engineering



Cyberinfrastructure
Department of Defense (DoD)
Earth Sciences
Education and Human Resources
Engineering
Ethics and Values Studies
International Science and
Engineering

Materials Research
Mathematical Sciences
Ocean Sciences
Physics
Polar Programs
Social, Behavioral, and Economic
Sciences

Website: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5517&from=fund

Deadline:

- Full Proposal Deadline Date: June 6, 2008
- Deadline date for REU Site proposals to the Antarctic Program: August 18, 2008
- Deadline date for REU Site proposals, except those to the Antarctic Program: September 13, 2007; August 18, 2008.
- Deadline for REU Site proposals to the Antarctic Program: June 6, 2008; June 5, 2009.
- Deadline for REU Supplement requests: Varies with the research program.

Contact the appropriate program officer for the award or proposal that would be supplemented.

Weissman International Internship Program

Dates: Summer 2008

Description: The Weissman Program sponsors a student to go overseas for full-time internships. Internships must be individually arranged by the student and proposed to the selection committee. This program is only available to sophomores and juniors. Internships, which must be a minimum of eight weeks, ordinarily take place during the summer. Internships are usually 8-12 weeks in duration, but longer internship proposals or those at other times of the year may be considered.

Internships in any professional area, including both the profit and nonprofit sectors, will be accepted. Internships must be located in any non-U.S. geographic region.

Research Areas: Open to all research areas.



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Website:

<http://www.ocs.fas.harvard.edu/students/global/weissman/weissman.htm>

Deadline: February 5, 2008

HIGH Summer Undergraduate Research Fellowship Program

Dates: Mid-June to late August (10 weeks)

Description: The Program intends to foster a strong and diverse community of science scholars and increase undergraduate research opportunities in the area of global infectious diseases. In addition to an enriching 10-week research experience, Fellows participate in weekly Journal Club meetings, Global Health Seminars, and engage in meaningful scientific discussion with leading global health researchers at Harvard.

Research Area: Open to all research areas.

Website:

<http://isites.harvard.edu/icb/icb.do?keyword=k16925&pageid=icb.page100195>

Deadline: February 18, 2008

Paul W. Zuccaire Internship Program

Dates: Summer 2008

Description: Spend a summer in Paris! The Institut Pasteur, founded in 1887 by Louis Pasteur, is one of the world's leading biomedical research opportunities. Research internships will be supervised by a lab mentor. Applicants should be ready to immerse themselves in Parisian culture and self-arrange travel and housing. Depending on availability, campus housing may be possible.

Research Areas: Scientific research at the Institut Pasteur is primarily in the area of infectious disease.

Website: <http://www.pasteurfoundation.org/zuccaire.html>

Deadline: January 4, 2008. **Note: two recommendation letters must be postmarked by December 14, 2007.



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