

Competition Space

Menu

AHA Summer Undergraduate Research Program (SURP) in Cardiovascular Sciences

Internal Submission Deadline: Tuesday, February 28, 2017 at 4:59 PM
ADD TO CALENDAR

Print

Administrator(s): Ryan Champagne (Owner)

Category: Student Competition

Award Cycle: Annual

Discipline/Subject Area: health sciences

Funding Available(\$): 2,000.00

Maximum Applications Allowed Per Applicant: 1

More information: <http://www.vmi.pitt.edu/aha-surp> (<http://www.vmi.pitt.edu/aha-surp/>)

Description:

APPLICATIONS DUE FEBRUARY 28, 2017!
**AHA Summer Undergraduate Research Program (SURP) in Cardiovascular Sciences
in Partnership with the Vascular Medicine Institute (<http://www.vmi.pitt.edu>) of the University of
Pittsburgh
Summer 2017**

The University of Pittsburgh (<http://www.pitt.edu/>), in cooperation with the American Heart Association (http://my.americanheart.org/professional/Research/Research_UCM_316889_SubHomePage.jsp) and the Vascular Medicine Institute (<http://www.vmi.pitt.edu/index.html>), offers a stipend to support summer research experiences in cardiovascular sciences or brain ischemia research for undergraduates mentored by a University faculty member. The SURP is designed to expose students to cutting-edge basic and translational cardiovascular research.

The program includes:

- A minimum 10-week summer research experience, May - August 2017
- Didactic core curriculum lectures
- Periodic bi-weekly meetings among participants and mentors
- Workshops in the appropriate and ethical usage of animals in research
- Workshops in grant writing
- Networking opportunities with world leaders in cardiovascular sciences and medicine
- Training in bench-top and translational research methods and techniques
- A generous stipend to cover participant expenses (\$4000)
- Opportunities to present in progress research results to colleagues and faculty
- Participation in weekly laboratory meetings of mentoring faculty
- Timely feedback between mentors, faculty and participants
- Meeting with program Co-Directors Dr. Cameron Dezfulian (<http://www.vmi.pitt.edu/aha-surp/contact.html>) and Dr. Jeffrey Isenberg (<http://www.vmi.pitt.edu/aha-surp/contact.html>) within 2-3 weeks of the start of the summer session to discuss plans

Core Curriculum (<http://www.vmi.pitt.edu/aha-surp/curriculum.html>)

Weekly Practical Research Skills Workshops, aimed at teaching the tools needed to perform research, will include the following topics:

- Use of PubMed and Endnote for literature & references
- Data Analysis and graphing with Prism (including biostatistics)
- Abstract writing and presentation (poster and oral)

- Searching for funding
- Writing/Reading a scientific paper
- Overview of cell culture techniques
- Animal modeling of disease processes

A weekly lecture series is presented to participants by experts in respective areas.

- Hypothesis testing, basic statistics, laboratory conduct, ethics in science
- Endothelial Function and Microcirculation
- Cardiac Contractility and Remodeling
- Careers in Cardiovascular Research and Medicine
- Cardiac Ion Channels and Rhythm Control
- Angiogenesis Methodology
- Mitochondrial Function
- Cardiac and Brain Ischemia and Reperfusion Injury
- Introduction to Grant Writing and Future Career Funding
- Commercialization of Innovation
- Cerebral Blood Flow Measurement

Prospective Participants

The SURP is open to undergraduates from accredited institutions of higher education with an interest in cardiovascular sciences or brain ischemia research as covered by the AHA mission (http://www.heart.org/HEARTORG/General/About-Us---American-Heart-Association_UCM_305422_SubHomePage.jsp), and that have an interest in potentially developing an independent research career. An emphasis is placed on applicants that are underrepresented within cardiovascular research.

Program Faculty (<http://www.vmi.pitt.edu/aha-surp/mentors.html>)

The faculty includes world-renowned scientists and physician-scientists in cardiovascular medicine and pathobiology.

Application Materials (<http://www.vmi.pitt.edu/aha-surp/application.html>)

A complete application consists of: (*details can be found on the Application Process (<http://www.vmi.pitt.edu/aha-surp/application.html>) page*)

1. Application cover page
2. Mentor's biosketch
3. Applicant résumé
4. Undergraduate transcript with GPA
5. Applicant personal statement
6. Research Project Proposal
7. Mentor letter of support
8. One additional letter of recommendation

Apply Early! Applications are due on Tuesday, **FEBRUARY 28, 2017** at **5:00pm**.

Contact Information (<http://www.vmi.pitt.edu/aha-surp/contact.html>)

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Application Tools

Apply



Office of Research

QUESTIONS? **Email us** (<mailto:rkc12@pitt.edu>)

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123 University Place
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