**Summer Research Opportunities**

**Vanderbilt**

**Vanderbilt School of Engineering Summer Research program**
Each student in the program works for 10 weeks under the supervision of a School of Engineering faculty member. Students work side-by-side with faculty, graduate students and other undergraduates on a currently active research project while gaining first-hand experience in laboratory research.

DEADLINE- Application will be available in February and due in March

**Vanderbilt Undergraduate Summer Research Program (VUSRP)**
VUSRP is a summer research opportunity available to enrolled Vanderbilt undergraduate students designed to enhance joint student-faculty research efforts.

PROGRAM DATES- June 4, 2018 through August 10, 2018
DEADLINE- All materials must be submitted by noon on February 16, 2018

**The SyBBURE Searle Undergraduate Research Program**
This program aims to provide undergraduate students with mentored experiences in advanced scientific investigation with some of the University's leading research and teaching faculty.

**National Science Foundation Research Experience for Undergraduate (REU) Sites**
Many summer opportunities are available at NSF REU sites in many scientific disciplines at numerous institutions and organizations through the United States. Above is the link to the NSF REU website, and below are a few of the available REU opportunities.

**Computation Sensing and Medical Robotics**
*The Johns Hopkins University*
Students will contribute to specific research projects pursued by faculty and researchers at the Laboratory for Computation Sensing and Robotics (LCSR). Each student will be a part of a collegial research team, including a faculty project supervisor and a graduate student mentor, and will work on a challenging research project. Some students may contribute to research on medical image registration and fusion or image enhancement and segmentation. Other students will help to develop new robotic devices to help support surgeons in the operating room.

PROGRAM DATES- May 27, 2017 through August 4, 2018
DEADLINE- All application materials need to be received by February 18, 2018

**Engineering Biological Machines**
*MIT, Georgia Tech, or University of Illinois-Urbana Champaign*
The National Science Foundation (NSF) Center on Emergent Behaviors of Integrated Cellular Systems (EBICS) announces its "Engineering Biological Machines" Research Experience for Undergraduates (REU) program for summer 2018. The program will include 10 weeks of
hands-on research at MIT, UIUC, or GT, attendance of EBICS Annual Retreat in Georgia to learn about cancer, and networking with REUs across GT, UIUC and MIT, as well as students and faculty across all 11 EBICS institutions.

**PROGRAM DATES**
- GT: May 20, 2018 through August 2, 2018
- UIUC: May 27, 2018 through August 2, 2018
- MIT: June 10, 2018 through August 17, 2018

**DEADLINE** - All application components must be submitted by February 16, 2018

**Imaging and Mechanics-based Projects on Accidental Cases of Trauma (IMPACT)**
*Wake Forest University*
The Biomedical Engineering Department at Wake Forest University will offer several summer research opportunities in 2017 focusing on Imaging and Mechanics-based Projects on Accidental Cases of Trauma (IMPACT). Students selected for this REU program will receive a stipend, meals, and on-campus housing.

**PROGRAM DATES** - May 27, 2018 through August 4, 2018
**DEADLINE** - Applications will be accepted on a rolling basis until positions are filled. To guarantee your application will be considered, apply by February 9, 2018

**Vanderbilt Institute for Nanoscale Science and Engineering (VINSE)**
*Vanderbilt University*
Participation in the program provides students with a true interdisciplinary research experience in an environment where physicists, chemists, biologists, and all engineers collaboratively solve problems and create new scientific understanding. Each student works directly with VINSE faculty members and their research groups and has access to the VINSE laboratories, which are shared facilities available to all authorized users.

**PROGRAM DATES** - May 27, 2018 through August 3, 2018
**DEADLINE** - All application materials are due on February 15, 2018

**Rehabilitation Engineering**
*Cleveland State University*
Students will be immersed in a community of undergraduate researchers, graduate students, engineering mentors, healthcare professions, and people with disabilities. Students will collaborate with others to work on research projects to restore movement to people with paralyzed arms, develop new prosthetic legs, help improve balance in older adults, and explore the mechanics of injured joints.

**PROGRAM DATES** - June 4, 2018 through August 10, 2018
**DEADLINE** - All application materials are due on March 1, 2018

**Other Opportunities**

**Biomedical Engineering Summer Internship Program (BESIP)**
The NIBIB sponsored Biomedical Engineering Summer Internship (BESIP) is for undergraduate biomedical engineering students who have completed their junior year of college. The internship
will allow rising senior bioengineering students to participate in cutting-edge biomedical research projects under the mentorship of world-class scientists in NIH laboratories in Bethesda, MD.

PROGRAM DATES- June 4, 2018 through August 10, 2018
DEADLINE- Online application is due February 9, 2018 and reference letters are due February 14, 2018

**Oak Ridge Associated Universities (ORAU) Summer Research Programs**

ORAU oversees several summer undergraduate research programs at Oak Ridge National Laboratory and other national laboratories.