MAE UNDERGRADUATE WEEKLY BULLETIN

JAN 22 2018

Important Dates

Winter Session Ends	**Jan 24**
Spring Semester Begins	**Jan 29**
End of Add/Drop for Spring	**Feb 5**
Graduation Applications for Spring Due	**Feb 22**

Summer Opportunities

Washington University Summer Engineering Fellowship

May 29-July 27

The Washington University Summer Engineering Fellowship (WUSEF) program is designed to encourage exceptional students from diverse backgrounds to conduct engineering research. Fellows will enjoy a rewarding summer research experience at one of the top universities in the U.S. Each fellow will engage in an independent research project under the guidance of a faculty member in the School of Engineering & Applied Science at Washington University. Stipend and living expenses included. *See attached.*

NAVAIR Summer Internships

Patuxent River, MD

The Naval Air Systems Command (NAVAIR) works in leading-edge engineering defense systems that provide the military with the capabilities they need to accomplish their mission and return home safely. These positions are located at the Naval Air Warfare Center Aircraft Division in Patuxent River, MD. 3.00 GPA and US Citizenship is required. *See attached.*

Job/Research Opportunities

Panasci and 43rd North Competition

A medical researcher has an idea to present in the Panasci competition and the 43rd North competition. They need an engineer to join the team as the idea focuses on converting mechanical energy into electrical energy. If you are interested, please contact the researcher directly below:

Muhammad Nadeem, MBBS
mnadeem@buffalo.edu
Research Assistant
State University of New York at Buffalo
716-800-5898

To post to the weekly bulletin, contact Brittany Sandor at bsmetank@buffalo.edu

ANNOUNCEMENTS

MAE Awards

Applications for the 2018 MAE Student Excellence Awards are now available online! Deadline to apply is February 13.

Faculty Awards

Have you had a great experience with a Faculty member at UB? Nominate them for the President Emeritus and Mrs. Meyerson Award for Distinguished Undergraduate Teaching and Mentoring! *See attached.*

University at Buffalo
Department of Mechanical and Aerospace Engineering
School of Engineering and Applied Sciences

mae.buffalo.edu

University at Buffalo
Educational Affairs

January 16, 2018

Dear Colleagues,

I am pleased to announce the call for nominations for the President Emeritus and Mrs. Meyerson Award for Distinguished Undergraduate Teaching and Mentoring, the university most prestigious award given specifically for undergraduate mentoring. I invite your participation by considering a nomination and by distributing this announcement broadly.

The President Emeritus and Mrs. Meyerson Award for Distinguished Undergraduate Teaching and Mentoring was established through a generous gift by the late UB President Emeritus Martin Meyerson and his wife, Margy Ellen, to recognize exceptional teaching and mentoring at the University at Buffalo. Faculty members who exemplify these qualities are foundational to UB and its academic mission. They provide undergraduates with guidance and support to develop the skills necessary for research and creativity as well as for critical thinking and innovation. This award honors faculty who have an outstanding record of helping UB undergraduates reach their full potential as young scholars and future leaders in their chosen careers. In addition to mentoring students, awardees are leaders within their own departments, extending beyond professional duties to engage other faculty and students in meaningful collaboration and initiatives. One common theme among successful faculty mentors is that their mentoring experiences are as impactful to them as they are for their students.

Faculty may be nominated for the award by students, faculty colleagues, alumni and/or university administrators. This year's award winners will be recognized this fall, at UB's 2018 Celebration of Faculty and Staff Academic Excellence. Please encourage your colleagues to nominate faculty who distinguish themselves as outstanding mentors.

The process and portal for nominations may be found at https://academicaffairs.buffalo.edu/meyerson-award.php Nominations will be accepted through February 19, 2018. For more information, please contact Megan Stewart, Office of Fellowships and Scholarships, at 716-645-9100 or via email at mrp6@buffalo.edu.

Thank you for fostering student mentoring at UB and promoting the Meyerson Award.

Sincerely,

Graham Hammill
Vice Provost for Educational Affairs and Dean of the Graduate School

Office of the Vice Provost

548 Capen Hall, Buffalo NY 14260-1680
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www.buffalo.edu

Washington University in St. Louis

Nearly 60 of Washington University's graduate and undergraduate programs rank in the top 25 by *U.S. News & World Report*, including the School of Medicine at No. 7, Brown School of Social Work at No. 2 and Biomedical Engineering at No. 12.

Through innovative research, the university is committed to creating the new knowledge necessary to achieve a bright and sustainable future.

More than **3,000 research projects** underway each year and **$613 million in research support** at WashU

School of Engineering & Applied Science

As an engineering school, we aspire to discover the unknown, educate students and serve society. Our strategy focuses intellectual efforts and builds on strengths, particularly as applied to medicine and health, energy and environment and security. Through innovative partnerships with academic and industry partners — across disciplines and across the world — we will contribute toward solving the greatest challenges of the 21st century.

Graduate programs in:

Biomedical Engineering

Computer Science & Engineering

Electrical & Systems Engineering

Energy, Environmental & Chemical Engineering

Mechanical Engineering & Materials Science

"WUSEF allowed me to step into the world of high quality academic research. It really opened my eyes to how fulfilling the work can be and helped me understand what I want to pursue."

— Debby Fowler, WUSEF Fellow

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#WashUengineers:

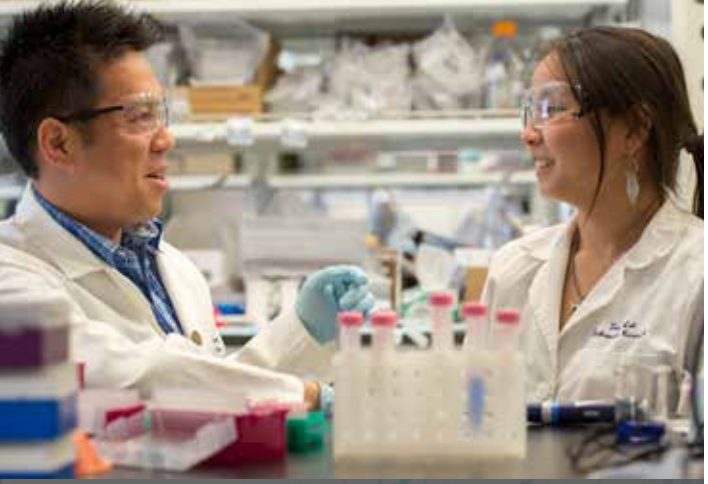
Washington University in St. Louis
School of Engineering & Applied Science

Summer Engineering Fellowship Program

May 29–July 27, 2018

Learn more & apply:
engineering.wustl.edu/wusef

Stipend, transportation, housing and food costs included



About the Washington University Summer Engineering Fellowship

The Washington University Summer Engineering Fellowship (WUSEF) program is designed to encourage exceptional students from diverse backgrounds to conduct engineering research. Fellows will enjoy a rewarding summer research experience at one of the top universities in the U.S. Each fellow will engage in an independent research project under the guidance of a faculty member in the School of Engineering & Applied Science at Washington University.

Projects will be in the general areas of mechanical engineering, electrical engineering, biomedical engineering, chemical engineering, computer science and materials science. Potential applications include medicine, renewable energy, pollution control and nanotechnology.

Fellows will be selected for their intellectual promise, curiosity and motivation. Prior research experience is not necessary. Students from mathematics and the physical sciences, as well as engineering, are welcome to apply.

Program dates:

May 29–July 27, 2017

Application deadline: February 19, 2018

How to apply:

Visit **engineering.wustl.edu/wusef** to complete the application form.

In addition, the following documents are required:

- Personal statement
- Resume
- Unofficial transcript
- Two references (at least one of these must be from a faculty member at student's current institution)

Eligibility:

WUSEF selects participants based on academic achievement, leadership, curiosity, motivation and commitment to diversity. Applications are welcome from students meeting the following criteria:

- Sophomore, junior or senior continuing undergraduate studies in Fall 2018
- Pursuing a major in engineering, mathematics or physical and life science (physics, chemistry or biology)
- Students must be a citizen or non-citizen national of the United States or an individual who has been lawfully admitted for permanent residence in the United States.
- The School of Engineering & Applied Science aims to encourage diversity in the field of engineering. Students from underrepresented backgrounds (African-American, Latino, Native American, those from underprivileged backgrounds and women) are encouraged to apply.

engineering.wustl.edu/wusef

"Working on a research project, touring local engineering companies, and exploring the city meant I was always doing something new. It's a fantastic opportunity and I would recommend it to any engineering student wanting to learn and try something new."

— Tristan Ford, WUSEF Fellow

Program benefits:

- Research experience with a faculty mentor at a leading university
- Preparation for graduate school admissions tests
- Social networking activities with other undergraduate researchers
- $5,000 stipend with free campus housing and travel to and from St. Louis; $120 per week food stipend
- Public transportation passes for travel in St. Louis

Program details:

- Work full-time on a research project for the program duration
- Attend program events, seminars and workshops with other fellows
- Give a presentation on the research at a research symposium

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3,0 GPA and US Citizenship is required.

0806 - Materials Engineering Series: This series includes professional engineering positions which are involved in the generation and/or application of theories, principles, practical concepts, and processes related to materials engineering science including considerations of cost, availability, fabrication, performance, and use) and the traditional engineering science disciplines (e.g., civil, mechanical, electrical, and chemical); material sciences (e.g., the interrelationships of composition, structure, and properties).

0893 - Chemical Engineering Series: This series covers positions managing, supervising, leading, and/or performing professional engineering and scientific work involving: chemical processes utilized by industries and scientific technologies to produce useful products and systems; and the use of mass, momentum, and energy transfers together with thermodynamics and chemical kinetics to explore, extend, improve, and provide for existing and potential chemical and biochemical conversion processes.

0830 - Mechanical Engineering Series: This series covers professional engineering positions involved in the managing, supervising, leading, and/or performing professional engineering and scientific work: involving the design, development, commission, manufacture, operation, maintenance, and disposal of mechanical devices and systems and their equipment and/or components; and concerning the principles of motion, energy, force, and material properties to ensure mechanical devices and systems and their equipment and/or components function safely, reliably, efficiently, and economically.

0850 - Electrical Engineering Series: This series includes professional engineering positions that require primarily application of knowledge of: (1) the physical and engineering sciences and mathematics; (2) electrical phenomena; and (3) the principles, techniques, and practices of electrical engineering.

0854 - Computer Engineering Series: This series includes professional engineering positions that require primarily the application of knowledge of: (1) fundamentals and principles of professional

engineering; (2) computer hardware, systems software, and computer system architecture and integration; and (3) mathematics, including calculus, probability, statistics, discrete structures, and modern algebra.

0855 - Electronics Engineering Series: This series includes professional engineering positions that require primarily application of knowledge of: (1) the physical and engineering sciences and mathematics; (2) electronic phenomena; and (3) the principles, techniques, and practices of electronics engineering. The work pertains primarily to electronic circuits, circuit elements, equipment, systems, and associated phenomena concerned with electromagnetic or acoustical wave energy or electrical information for purposes such as communication, computation, sensing, control, measurement, and navigation.

0861 - Aerospace Engineering Series: This series includes professional aerospace engineering positions involved in planning, research, development, design, test and evaluation, analysis, production, fabrication, operation, type certification, and/or maintenance of aerospace vehicles or integrally associated equipment.

Apply at https://www.indeed.com/jobs?q=internship&l=Patuxent%20River%2C%20MD&vjk=695a19575f2f0b21 **AND** submit your resume and unofficial transcripts to PAXSTUDENT@navy.mil. Offers are made no a rolling basis and so the earlier you apply, the better your chances.