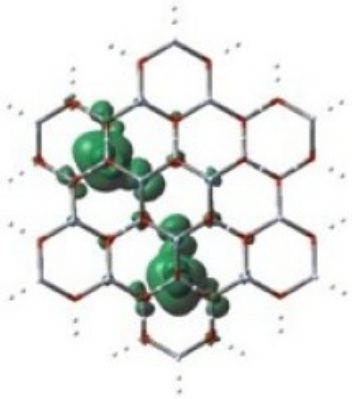
MEM-C Summer Research Programs

The University of Washington Molecular Engineering Materials Center (UW MEM-C, NSF 1719797) is an interdisciplinary research effort involving 16 faculty from chemistry, physics, materials science, chemical engineering, and electrical engineering and approximately 40 graduate students and post-docs.

MEM-C aims to accelerate the development of future energy conversion, information processing, and sensing technologies through design, discovery, processing, and application of complex electronic and photonic materials.

MEM-C will prepare today's science and engineering students to be tomorrow's diverse cadre of technology innovators and leaders in industry, national laboratories, and academia.

The summer REU program is focused on exposing under-represented minorities and veterans to a viable and relevant career pathway focused on materials and energy research.



Our focus: materials resilience and innovation- Undergraduates including veterans will find the research topics are both challenging and relevant to their experience. How can we provide mobile, lightweight and inexpensive energy sources to our forces and to the communities they work with? How can materials research lead to new electronics that are super miniaturized, low energy consumption and reliable? How can new kinds of sensors be used to improve safety, efficiency, and effectiveness?

Summer Research Program

If selected you will be embedded in one of the MEM-C labs for 9 weeks June 18- August 17th. You will work with a graduate student and faculty to develop a research project, gain training in relevant techniques and instrumentation, collect data and finally produce a poster and research abstract. Students participate in a weekly seminar on undergraduate research covering research ethics, writing a research abstract, making a scientific poster.

Stipend $4000

Travel and Housing available as required.

Application closes Feb 16

The program is designed to open doors for those who would like to explore new career options. A solid math and science high school preparation will be sufficient. Work based experience will also be factored in. See the list of possible research labs.

Apply Online-

http://depts.washington.edu/uwmemc/wordpress/education/mem-c-reu/

Application requires:

- Personal statement 250 words, How does this fit into your career plans? Why you believe that you are prepared to be successful? What research focus interests you the most?
- CV- listing all education, training and works experience
- 2 persons (provide email) for who can provide a professional recommendation (We will contact them to request a letter and provide details.)

Research Experience for Teachers

Open to high school or middle school science teachers. Teachers learn about state of the art research in one of our labs and then translate the experience into lessons or curriculum they can use in their classrooms.

Duration 6 weeks- starting June 18, 2018

Stipend $4000

Apply online

http://depts.washington.edu/uwmemc/wordpress/education/mem-c-reu/

Materials ALVA

A summer program for minority UW students during their transfer summer.

Lab research combined with a rigorous math and chemistry enhancement.

Includes stipend, housing.

Apply to University of Washington GenOM ALVA office

http://depts.washington.edu/genomics/about/index.shtml

Contact uwmemc@uw.edu 206 685 2029