

Workshop in Advanced Functional Fibers and Fabrics

This expenses-paid, two week Workshop provides a unique educational experience for MIT undergraduates interested in the design and engineering of products made of fibers, yarns and textiles that a participant can readily apply to future challenges and professional pursuits. Students will spend one week in Cambridge (June 11-15) and one week in New York City (NYC) (June 18-22). In addition to the opportunity to collaborate on specific projects with design students from Fashion Institute of Technology (FIT), the Workshop includes a mentor presentation, tours of relevant facilities in Cambridge/NYC, and the opportunity to become familiar with specialized equipment at AFFOA* HQ and on the respective MIT and FIT campuses, in support of project research. The project itself will enable students to learn about and use novel 3D textile manufacturing methods, including Stoll knitting and 3D printing. Furthermore, students will understand how to use these technologies to make diverse aesthetic and functional products and how these products can be enhanced by using non-traditional materials such as bio-engineered or electrically conductive yarns to make functional garments. Finally, by bringing together MIT and FIT students, participants will experience working in multi-disciplinary teams to prototype and develop new products.

Limited to 3 students each from MIT and FIT. **Application deadline is May 1, 2018. Participants will be notified by May 11, 2018.**

*Advanced Functional Fabrics of America (AFFOA) is a Manufacturing Innovation Institute within the Manufacturing USA network. Its headquarters are located in Cambridge, MA.

Interested MIT students should apply by email to Gwen Wilcox at gwilcox@mit.edu with "MIT-FIT Workshop" in the subject line and cc: to rutledge@mit.edu and swpatt@mit.edu and provide the following information:

Name:

MIT Degree Program:

Year of Study:

MIT Email:

Mobile phone number:

Local address:

Prior experience with 3D printing and/or knitting (if any):

Short statement of why you are interested in this workshop:

Indicate whether or not you will require accommodation on campus or in Cambridge during the MIT portion of the workshop.