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New LIFT Internship Program to Provide Area College Students Hands-On Experience In Cutting Edge Advanced Lightweight Manufacturing

DETROIT – LIFT – Lightweight Innovations For Tomorrow announced a new internship program for local college students, providing them with real-world, hands-on experience in the cutting edge advanced manufacturing industry.

The internship program is designed for three levels of students - initially undergraduate juniors and seniors in phase one and then first year graduate students in phase two.

In the first phase of the program, January 2018 through April 2018, LIFT will provide paid internships to selected undergraduate students from the University of Michigan and Wayne State who will spend up to 25 hours a week for a 16-week hands-on research experience at the new LIFT lightweighting research and development facility in Detroit.

“Providing students with work-and-learn opportunities is critical to their attainment of the knowledge, skills and abilities they will need to succeed in both education and the workplace,” said Emily DeRocco, education and workforce development director, LIFT. “These internships are being designed to help students gain foundational employability skills as well as the theory and technical skills in demand across all sectors in advanced manufacturing today.”

The students will be mentored by in-house LIFT engineers. They will work on ongoing lightweighting technology research and development projects underway at the institute.

The initial two internship opportunities are focused on Material Science and Mechanical Engineering and Thermo-Mechanical processing with an introduction to Integrated Computational Materials Engineering (ICME).

The Material Science and Mechanical Engineering/Engineering Mechanics (ME/EM) internship is open to juniors in a relevant undergraduate program and will expose the student to concepts of equipment certification, standards, and statistical variation. The

student will have the opportunity to apply these concepts by performing testing on materials derived during the LIFT Metrology Lab's melt processing and joining and assembly projects.

The Thermo-Mechanical Processing and ICME internship is open to seniors in a relevant undergraduate program and will afford the student opportunities to become familiar with LIFT manufacturing capabilities in Thermo-Mechanical Processing (TMP) by participating on teams working on TMP related research. The TMP programs will also introduce the student to the use of ICME as a component of advanced research.

Undergraduate junior level (Level 3) and undergraduate senior-level (Level 2) students from U of M and WSU who are interested in applying for a phase one internship can learn more at: http://orau.org/lift/.

LIFT has partnered with the Oak Ridge Associated Universities [ORAU] to help manage the program due to the organization's expertise in bringing together university faculty and students from its 121-member consortium to collaborate on major scientific initiatives that help keep America on the leading edge of science and technology.

LIFT, operated by the American Lightweight Materials Manufacturing Innovation Institute (ALMMII) and one of the founding Manufacturing USA institutes, is a public-private partnership dedicated to developing and deploying advanced lightweight metal manufacturing technologies, and implementing education and training programs to better prepare the workforce today and in the future.

"Our goals as an institute are twofold," said Larry Brown, executive director, LIFT. "We are to not only enable lightweight solutions from the technology side, but also expose students to the world of advanced manufacturing to help move the industry forward here in the U.S."

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ABOUT LIFT

LIFT is a Detroit-based, public-private partnership committed to the development and deployment of advanced lightweight metal manufacturing technologies, and implementing education and training initiatives to better prepare the workforce today and in the future. LIFT is one of the founding institutes in the National Network of Manufacturing Innovation (NNMI), and is funded in part by the Department of Defense with management through the Office of Naval Research. Visit www.lift.technology to learn more.