



THE LAURA & ALVIN SIEGAL
LIFELONG LEARNING
PROGRAM

FOR IMMEDIATE RELEASE:

January 23, 2017

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**Case Western Reserve University, LIFT
To Launch Lightweight Manufacturing Certification Program**

Courses to focus on Additive Manufacturing Technologies, Advanced Materials, and Polymers

CLEVELAND – The Siegal Lifelong Learning Program at Case Western Reserve University, LIFT (Lightweight Innovations For Tomorrow), the Ohio Manufacturers' Association, and other industry partners are introducing a professional certification program in lightweight additive manufacturing.

The initiative, expected to be offered for the first time in late 2017, will provide Ohio workers an opportunity to become certified or continue their education in this growing, in-demand advanced manufacturing field.

Program graduates will gain higher education training in advanced materials, light weighting, welding and additional advanced professional skills identified by employers as relevant and difficult to find when recruiting new hires.

Course development for the training program will focus on three areas: additive manufacturing technologies, advanced materials—including metals—and polymers.

“Advanced manufacturing continues to grow in Ohio, accounting for nearly 17 percent of the state economy with nearly 700,000 workers,” said Brian Amkraut, the Siegal Program’s executive director. “To better prepare the existing workforce for the changes taking place in the industry, we need to provide access to cutting-edge learning for the future workforce.”

LIFT, one of the founding Manufacturing USA institutes, and a part of the National Network of Manufacturing Innovation program, is a Detroit-based 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.

The program received letters of support from several entities, including the Edison Welding Institute (EWI), a leading engineering and technology organization in North America; the Ohio Aerospace Institute (OAI), which enhances aerospace competitiveness through research and technology development, workforce preparedness, and engagement with global networks for innovation; and MAGNET: The Manufacturing Advocacy and Growth Network, part of the Ohio Manufacturing Extension Partnership (MEP), which supports, educates, and champions Northeast Ohio manufacturing with the goal of transforming the regional economy into a powerful, global player.

The program is expected to increase in the skillset of industry partner employees and attract new manufacturers to the region. The courses will be offered at Case Western Reserve or potentially onsite with partners EWI, OAI and MAGNET to reach a broader Ohio audience.

“Without continuing and evolving education to support employer needs in a constantly advancing industry, the professional workforce will not possess the skills necessary to effectively utilize lightweighting technologies and processes,” said Emily DeRocco, LIFT’s education and workforce development director. “We applaud Case Western Reserve and all of the industry partners for recognizing the need for this program and how important it is to equip the advanced manufacturing industry in Ohio with the talent resources it needs for success – today and tomorrow.”

ABOUT THE SIEGAL LIFELONG LEARNING PROGRAM

The Laura and Alvin Siegal Lifelong Learning Program at Case Western Reserve University offers a wide variety of non-credit educational opportunities that draw from the broad academic disciplines of the University and the heritage of Jewish learning from Siegal College. Siegal Lifelong Learning creates a connection between the academic world and the general community. Through innovative and engaging courses and events, Siegal reaches lifelong learners of all ages at CWRU’s University Circle Campus, throughout greater Cleveland, and beyond, and sets a national standard for the highest quality university-based continuing education programming. SLLP provides opportunities for the public to interact with internationally renowned scholars, to share in their cutting-edge research, and to be involved in the ongoing conversation of histories, current events, and collective future. Newcomers as well as longtime friends and alumni of CWRU have access to unique educational and social opportunities and experiences through the Siegal Lifelong Learning Program.

ABOUT LIFT

LIFT is a Detroit-based, public-private partnership committed to developing and deploying 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 of Manufacturing USA, and is funded in part by the Department of Defense with management through the Office of Naval Research. Visit www.lift.technology or follow on Twitter @NewsFromLIFT to learn more.

BUILDING 21ST CENTURY MANUFACTURING TALENT

Upskilling Incumbent Workers: Professional Certification in Lightweight Additive Manufacturing

An Education & Workforce Development Initiative for
LIFT...Lightweight Innovations for Tomorrow



THE PROBLEM

Ohio is ranked sixth in the nation for manufacturing employment concentration and the state's manufacturing industry contributes \$80.7 billion to the national economy. With over 700,000 workers employed in the field, manufacturing is integral to Ohio's success. Despite the strength of the industry, fewer individuals are entering the manufacturing field. In 2015, only 29,816 individuals completed training and degrees relevant to advanced manufacturing jobs while employers posted 83,742 available jobs in the state. Many efforts are underway to increase interest in advanced manufacturing among the future workforce. However, employers need workers to fill positions quickly. One way for manufacturers to get the talent they need for immediate success is to train their current workers in the new skills necessary for production.

THE SOLUTION

The Siegal Lifelong Learning Program (SLLP) at Case Western Reserve University (CWRU) in Ohio was founded in 2012 with the mission to develop robust educational activities for working professionals. In collaboration with LIFT and other industry partners, SLLP will develop specialized programming for working professionals to increase their knowledge of lightweight metals and other advanced manufacturing technologies. This approach serves an unmet need for many employers and will be a high-quality, university-led program for upskilling incumbent workers to fill job demands.

PROJECT LEAD

Case Western Reserve University Siegal office of Continuing Professional Studies

PARTNERS

EWI
Ohio Aerospace Institute (OAI)
MAGNET
The Timken Company
Parker Hannifin
Materion

ABOUT THE PROJECT

SLLP Office of Continuing Professional Studies will create open enrollment courses in technical topics with input from project partners EWI, Ohio Aerospace Institute (OAI), and MAGNET to ensure that course materials align with industry needs across Ohio.

EWI

Develops, tests, and implements advanced manufacturing technologies

EWI is the leading engineering and technology organization in North America dedicated to developing, testing, and implementing advanced manufacturing technologies for industry.

OAI

Enhances our partners' aerospace competitiveness

OAI's mission is to enhance our partners' aerospace competitiveness through research and technology development, workforce preparedness, and engagement with global networks for innovation and advocacy.

MAGNET

Supports, educates, and champions Northeast Ohio manufacturing

MAGNET: The Manufacturing Advocacy and Growth Network is part of the Ohio Manufacturing Extension Partnership (MEP), which supports, educates, and champions Northeast Ohio manufacturing with the goal of transforming the regional economy into a powerful, global player.

IMPACT



Additional training options for incumbent workers in Ohio



Increased enrollment in CWRU graduate programs related to advanced manufacturing



An increase in the skillset of workers employed by manufacturers in the state

ALIGNMENT TO LIFT STRATEGIC FOCUS AREAS



Creating enhancements to engineering curriculum using lightweighting technologies



Linking and leveraging resources and related initiatives on the ground today



Attracting students and workers to educational pathways and careers in manufacturing



Ensuring students gain STEM foundational skills for success in manufacturing careers

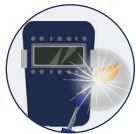
Program graduates will receive higher education training in:



Advanced materials, including metals



Lightweighting



Welding



Advanced manufacturing techniques identified by employer partners

The project may offer two unique features for future graduates:



Full-time employment at Parker, Materion, or another regional manufacturer

For additional information about Case Western Reserve Siegal Office of Continuing Professional Studies, please contact Monica Dumitriu at mx2d@case.edu.

For more information, please see lift.technology or contact LIFT Education & Workforce Director Emily DeRocco at ederocco@lift.technology.

