



THE OHIO STATE UNIVERSITY

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***'LIFT Ohio Means Internships & Co-ops 2.5 Program'***  
**Launches in Partnership with Ohio State University**  
*Program to bolster advanced manufacturing workforce in Ohio*

Columbus, Ohio - Lightweight Innovations for Tomorrow (LIFT) and The Ohio State University (OSU) announced today a co-located internship program designed to train college students for in-demand lightweight manufacturing technologies of today and tomorrow. Dubbed: '*LIFT Ohio Means Internships & Co-ops 2.5*' (LIFT OMIC), in collaboration with academic and industry partners, the initiative aims to advance the application of advanced lightweight metal alloys, manufacturing technologies and design methods integral to advanced manufacturing for students. Initially set to host 80 interns and conduct 30 co-located internships throughout 2016, LIFT OMIC brings together students, faculty, and industry partners to develop the talent supply chain for manufacturers.

"Demand for manufacturing workers in Ohio is at a record high," said Larry Brown, Executive Director, LIFT. "LIFT OMIC will focus on in-demand manufacturing career pathways to create well-trained professionals to fill the need for highly skilled jobs in the state's largest economic sector."

"LIFT and Ohio State have assembled a strong team to develop this novel approach to manufacturing education, involving real-world industry projects and close collaboration with academic faculty and students," said Emily DeRocco, Education & Workforce Director, LIFT. "As technologies continue to rapidly impact this ever-evolving industry, it is vital to expand work and learn opportunities to stay ahead of the learning curve."

LIFT OMIC will be lead by Ohio State. Academic, industry, and technology partners include: Columbus State Community College, Tolles Career and Technical Center, C-TEC Career & Technology Education Centers of Licking County, Tri-Rivers Career Center, Marion Technical College, Metro High School,

Columbus School for Girls, Honda and Whirlpool, JobsOhio, Ohio Manufacturers' Association, and Edison Welding Institute.

"This is an opportunity for students, faculty, and industry to come together and ensure Ohio's manufacturing sector remains strong and thrives," said Glenn Daehn, Executive Director, Ohio Manufacturing Institute and Fontana Professor of Metallurgical Engineering, Ohio State. "This academic consortium is leading the way in training the next generation of advanced manufacturing workers."

Details on the LIFT OMIC program are at <http://omi.osu.edu/omic>. For more information on LIFT OMIC and other LIFT education and workforce development initiatives, please visit [www.lift.technology](http://www.lift.technology) or contact LIFT Education & Workforce Director Emily DeRocco at [ederocco@lift.technology](mailto:ederocco@lift.technology).

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## **ABOUT LIFT**

*Lightweight Innovations For Tomorrow (LIFT) is a public-private partnership that will develop and deploy advanced lightweight materials manufacturing technologies and programs to prepare the workforce. The LIFT region includes 5 states: Michigan, Ohio, Indiana, Kentucky and Tennessee.*

*LIFT is operated by the American Lightweight Materials Manufacturing Innovation Institute (ALMMII) and was selected through a competitive process led by the U.S. Department of Defense under the Lightweight and Modern Metals Manufacturing Innovation (LM3I) solicitation issued by the U.S. Navy's Office of Naval Research. LIFT is one of the founding institutes in the National Network for Manufacturing Innovation, a federal initiative to create regional hubs to accelerate the development and adoption of cutting-edge manufacturing technologies.*

## **ABOUT THE OHIO STATE UNIVERSITY**

*The Ohio State University's main campus is America's largest and most comprehensive, with more than 53,000 students, 17 colleges and 240 masters', doctoral and professional degree programs and an annual operating budget of more than \$4 billion. Ohio State's depth and excellence is complemented by a top-five academic medical center and a premier cancer center.*

*Ohio State consistently ranks as one of the nation's top research institutions, with \$703 million in spending last year in areas that are critical to Ohio's ability to compete locally, nationally, and internationally. The university ranks second nationally in the amount of industry sponsored research it conducts. Ohio State has particular strength in areas such as global warming, cancer, infectious disease, advanced materials, and ag-bio products that feed and fuel the world.*

# BUILDING 21st CENTURY MANUFACTURING TALENT



## Ohio Means Internships & Co-ops 2.5 Program

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

July 1, 2015 – December 16, 2016

### THE PROBLEM

Manufacturing is the largest sector of Ohio's economy at 18% GDP, producing more than \$52 billion in products sent to 216 countries. Most manufacturing firms in Ohio are small businesses. Approximately 97% of Ohio manufacturing firms employ less than 500 workers, including almost 50% of firms with 1-4 employees. At the same time, demand for workers in manufacturing is at record levels. Manufacturing employers posted over 275,000 online ads for workers in Ohio during 2014, and 2015 is set to surpass this record. The need for skilled workers in advanced and lightweight manufacturing is expected to grow exponentially.

The skills necessary for many workers in the field take years to develop and, with rapidly shifting technologies, many workers' skills will be outdated by the time they are mastered in the classroom. How can Ohio fill the pipeline of trained workers now to ensure that the manufacturing sector remains strong?

### THE SOLUTION

In response to the need for more on-the-job and work-based learning, the Ohio Department of Higher Education funded the LIFT Ohio Means Internships & Co-ops 2.5 Program (LIFT OMIC). OMIC is a partnership between The Ohio State University (OSU) and its academic and industry partners to build a co-located internship program that trains students for in-demand lightweight manufacturing technologies. The goal is to bolster a workforce proficient in the application of advanced lightweight metal alloys, manufacturing technologies, and design methods important to advanced manufacturing. LIFT and OSU have assembled a strong team to develop this novel educational approach to manufacturing education involving real-world industry projects with close involvement by academic faculty and students.

Initially, the program's goal is to engage 80 interns and conduct 30 co-located internships.

### PARTNERS

#### Lead

The Ohio State University

Ohio Department of Higher Education

#### Academic partners

The Ohio State University, Columbus State Community College, Tolles Career and Technical Center, C-TEC Career & Technology Education Centers of Licking County, Tri-Rivers Career Center, Marion Technical College, Metro High School, Columbus School for Girls

#### Industry and technology partners

Honda and Whirlpool, JobsOhio, Ohio Manufacturers' Association, and Edison Welding Institute

### ALIGNMENT TO LIFT WORKFORCE & EDUCATION GOALS



Deploying pathways from K-12 through community colleges to university four-year degree programs, with more on and off ramps to employment



Attracting more young people to manufacturing careers



Expanding work and learn opportunities

### EXPECTED OUTCOMES

Teams of co-located interns may provide valuable perspectives to industry through cross-institutional training. The LIFT OMIC co-located internship program intends to address a central concern of employers – closing the skills gap between the classroom and the workplace.

## PROJECT DESCRIPTION

- Focused on in-demand manufacturing career pathways
- Solve industry-identified problems through individual or team projects
- 80 total internships
- 30 co-located internships
- Students will:



Undergo high-level training, utilizing resources at both sites with industry and academic mentors. At a minimum, the student or student teams, faculty mentor, and company representative must meet at the beginning and end of the semester to work on project goals, timelines, resources and deliverables.



Have access to school facilities and equipment to use on industry-defined and driven projects.



Work individually or in teams (single or multi-institution including students from Ohio Technical Centers, community colleges, and research universities).



Receive scholarships toward tuition and fees as well as an hourly salary.



May receive assigned online educational resources by the company on industry-specific skills, such as LEAN, SixSigma Black Belt curricula, and soft skills, such as communication, problem-solving, and project management.



Receive academic credit or a transcript notation for their effort over the academic term.

## BENEFITS TO PARTICIPANTS

Students, faculty, and industry will come together for the LIFT OMIC internship and co-located internship program. The program benefits all involved to create well-trained, ready, cohorts of highly-skilled workers for Ohio manufacturing firms.



### *Students will:*

- Gain hands-on training working in real-world industry projects
- Earn competitive hourly wages from participating companies
- Open opportunities to future employment
- Earn a \$1,000 scholarship during initial project semester
- Receive academic credit or transcript notation at completion



### *Faculty will:*

- Work closely with industry representatives to help students gain experiential learning
- Collaborate with cross-institutional teams on sustainable best practices in advanced manufacturing, furthering curriculum development



### *Participating companies will:*

- Directly access talented students
- Work with faculty mentors that offer project expertise
- Choose training modules for students that ensure the future workforce has industry-specific skills such as Lean, Six Sigma, and others

Details on the LIFT OMIC program are at <http://omi.osu.edu/omic>. Industry members or students may contact Kathryn Kelley at [omic@osu.edu](mailto:omic@osu.edu) or [kelley.81@osu.edu](mailto:kelley.81@osu.edu).

For more information please see [lift.technology](http://lift.technology) or contact LIFT Education & Workforce Director Emily DeRocco at [ederocco@lift.technology](mailto:ederocco@lift.technology).