The Lightweighting certificate courses will be offered on a stand-alone basis and can be taken together as a package.

The three modules include:

- Polymers
- Additive Manufacturing
- Advanced Materials

Participants will receive a stand-alone certificate for each module and an integrated fully branded LIFT CWRU NC3 professional certificate upon completion of all three modules.

How To Register:

Registration is available at www.case.edu/cps/courses/lift-program-overview/lift-courses/

An integrated course module discount of 10% for the full certificate is available for individual participants in all three LIFT courses.

CONTACT

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Project Director, Professional Education
CWRU SLLP LIFT
Email: mxd2@case.edu
Phone: 216-368-3804

FOR REGISTRATION INFORMATION, VISIT THE CWRU SLLP WEBSITE

http://case.edu/cps/

Lightweighting Professional **Certificate Program**

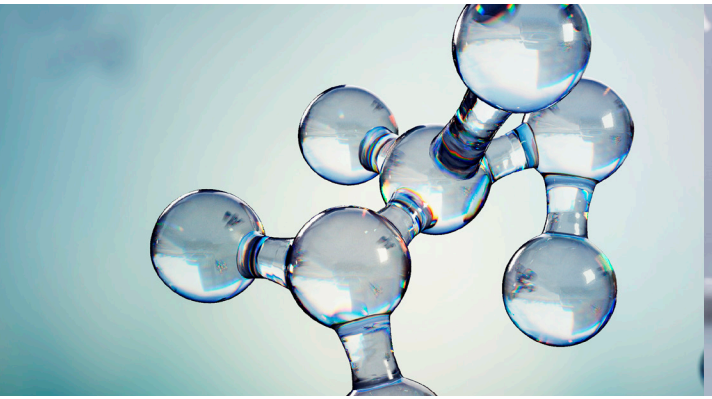
CASE WESTERN RESERVE UNIVERSITY SIEGAL LIFELONG LEARNING PROGRAM & LIFT

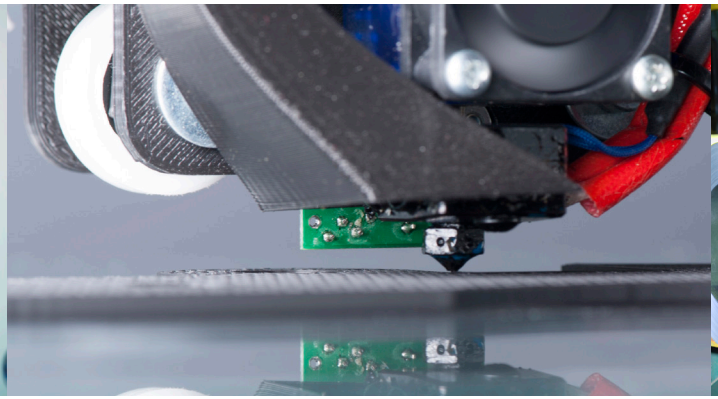
CASE WESTERN RESERVE UNIVERSITY | THE LAURA & ALVIN SIEGAL LIFELONG LEARNING PROGRAM

lift® LIGHTWEIGHT INNOVATIONS FOR TOMORROW

Lightweighting Certificate Program Course Information

Advanced manufacturing around lightweighting is on the leading edge of industries around the country. With a lightweighting certificate, you'll be able to work in the most high-tech innovative fields - today!





Polymers

Learning Objectives:

- Learn practical uses of polymer characterizations, methods and structure-property relationships
- Understand polymer science, polymer synthesis to properties and polymer processing
- Demonstrate problem-solving skills in polymers through case studies analysis in multiple industries

Lightweighting Related Jobs in Ohio:

- **8 consecutive years of employment growth**
- **Over 740,000 people employed across the state in 2017**
- **Over 7,600 online job postings in 2017**

Additive Manufacturing

Learning Objectives:

- Learn where Additive Manufacturing (AM) technologies can be applied for design or economic advantage
- Understand lightweighting AM technologies, trends and applications in various industries
- Demonstrate problem-solving skills in lightweighting through case studies analysis with our AM experts
- Possible Job Titles Available in Lightweighting:
  - Designers
  - Product Engineers
  - Research & Development Engineers
  - Program Managers

Advanced Materials

Learning Objectives:

- Learn the fundamentals of materials science and how to improve properties such as strength, stiffness and ductility in a wide array of lightweight material options
- Understand the use of advanced materials databases (e.g., Granta) and the impact of key market drivers on the selection criteria for critical applications in the transportation industry
- Demonstrate the concepts introduced in this course through select case studies provided by resources across the country

Contact us to learn more

mxd2@case.edu **216-368-3804** **case.edu/cps/**