

**MAKE CONNECTIONS
BETWEEN MANUFACTURING
CONTENT KNOWLEDGE
AND NEXT GENERATION
SCIENCE STANDARDS!**



**SCHOOL
COUNSELORS
AND
ADMINISTRATORS
ARE ALSO INVITED
TO ATTEND!**

This professional development workshop is designed to acquaint science teachers with real-life applications of STEM skills in today's manufacturing environment. Teachers will learn about current demands in the manufacturing industry – and consider how to prepare students with the skills to meet these demands - by completing a STEM design challenge project and by networking with other STEM educators from across the state, CEOs of local companies, and members of the Connecticut Department of Education. The workshop will be in-person at SCSU and will include virtual tours of area manufacturing facilities.

ANNUAL MATERIALS & MANUFACTURING SUMMER TEACHERS' INSTITUTE

**THURSDAY & FRIDAY
JULY 22-23, 2021**

**SOUTHERN CONNECTICUT
STATE UNIVERSITY
AND
MILFORD'S PLATT
TECHNICAL HIGH SCHOOL**

CERTIFICATE OF COMPLETION

Participants will receive a stipend for two days, a certificate of completion, and their completed project for the classroom.

ELIGIBILITY

This workshop is open to STEM as well as Career and Tech Ed (CTE) teachers, grades 6-12. Others are welcome if space permits.

REGISTRATION

Space is limited;
Register [here](#) ASAP to reserve a seat.

FOR MORE INFORMATION

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Materials Manufacturing Summer Teachers' Institute

Co-Directors:

Christine Caragianis Broadbridge

Executive Director; Division of Research & Innovation, SCSU
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Institute Coordinator:

Peter Dimoulas

Grant Program Coordinator and BioPath Program Manager, SCSU
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Division of Research and Innovation

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Welcome and Overview

(Jennings Hall, JE 127)

8:15 – 8:45	Sign in and networking	
8:45 – 9:15	Welcome	<p>Colleen Bielitz AVP of Strategic Initiatives and Outreach, SCSU</p> <p>Jamison Scott Executive Director, ManufactureCT</p> <p>Jim Gildea Director, Manufacturing Bigelow Tea</p> <p>Representative Kara Rochelle</p> <p>Representative David Yaccarino</p> <p>Senator Joan Hartley</p>
9:15 – 9:30	Overview of Materials Science & Engineering: <i>Connecting NGSS</i>	Christine Broadbridge Executive Director, Research & Innovation

Bridging Problem Solving to Manufacturing

(Jennings Hall, JE 127)

9:30 – 9:45	Manufacturing 4.0: <i>The Future of Manufacturing</i>	Jack Crane Senior Advisor, CONNSTEP
9:45 – 10:30	Theory of Hydraulics: <i>Application to Everyday Life</i>	David Tuttle Chair of Manufacturing Technologies, Platt Tech High School
10:30 – 11:00	Break Out Discussions	
11:00 – 11:20	Virtual Tour of Platt Tech	David Tuttle Chair of Manufacturing Technologies, Platt Tech High School
11:20 – 11:40	NGSS and Implications for Planning Curriculum	Peter Dimoulas Grant Program Coordinator, Research and Innovation
11:40 – 12:00	Q&A and Debrief	

Networking Lunch

(Academic Science and Laboratory Building, lower level)

12:15 – 1:00	<p>Welcome from CSDE: Melissa K. Wlodarczyk Hickey Connecticut Department of Education</p> <p>Lunch Keynote: Amy A. Musanti Director, Sustainable Building Solutions, Assa Abloy</p>	
1:00 – 1:45	Networking Lunch	Tour of Connecticut State Colleges and Universities Center for Nanotechnology (CSCU-CNT)

Welcome and Overview

8:30 - 9:00 Sign in and networking

9:00 - 9:15 Overview of the Day **Dave Tuttle** | Chair of Manufacturing Technologies, Platt Technical High School

Bridging Problem Solving to Manufacturing (In Shop)

9:15 – 10:15 Assembly of Pascal's Theory of Hydraulics **Dave Tuttle** | Chair of Manufacturing Technologies, Platt Technical High School

10:15 – 10:30 Coffee Break

10:30 – 11:15 Assembly of Pascal's Theory of Hydraulics **Dave Tuttle** | Chair of Manufacturing Technologies, Platt Technical High School

11:15 – 12:15 NGSS Lesson Plans

Peter Dimoulas | Grant Program Coordinator, Division of Research and Innovation

12:15 – 12:30 Questions and Debrief

Sponsors and Acknowledgements

Alloy Engineering

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Southern Connecticut State University

Platt Technical High School; Milford, CT

ManufactureCT

Division for Research and Innovation, SCSU STEM-IL

SCSU Center for Excellence in Mathematics and Science

Bigelow Tea

Thank you to our incredible sponsors, speakers, keynotes, workshop facilitators and all of our attendees at the 9th annual The Materials and Manufacturing Summer Teachers' Institute.

We are deeply grateful to our sponsors and friends who provide funds and resources that are essential for us to be able to annually host this Institute.

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