


**Find Great Careers**

**OCTOBER**

**Plan Your Event Now**



**Tour Florida's Industries**

[www.madeinflorida.org](http://www.madeinflorida.org)

### MFG Month Exposes Students to Manufacturing Careers

MFG Day is a worldwide initiative, launched every year on the 1<sup>st</sup> Friday in October to promote great careers in manufacturing to students. In Florida, it empowers manufacturers and educators to come together to address Florida’s manufacturing workforce challenges. By opening their doors, manufacturers highlight what modern manufacturing looks like as well as the many high-wage careers available!

Ready to host or take a tour? The first step is to contact the coordinator for your region to find a participating manufacturer near you. Then use the FLATE Best Practices Guide to plan your visit, including a step-by-step checklist. The Manufacturing Institute (MI) also offers a lot of great resources, including this webinar on high school internships.

*FLATE Webinar On-Demand*

*Get Ready for Manufacturing Month*



- \* Where to Start \*
- \* Who to Contact \*
- \* Tips & Resources \*




**High School Internship Toolkit for Manufacturers**

Better understand the benefits/impact of hosting high school interns, and how to handle the greatest challenges and concerns.

+ Other MFG Day Webinars

**GUIDE FOR STUDENT INDUSTRY TOURS**



CONNECTING STUDENTS & EDUCATORS WITH THEIR INDUSTRY PARTNERS

A FLATE BEST PRACTICES GUIDE

[www.flate.org](http://www.flate.org)

[Click here to visit FLATE's Manufacturing Month Site for all the tools you need to plan your student event](#)

### Scroll down for upcoming Florida MFG Month Events!

#### Building Student Interest in Careers in Advanced Manufacturing Panel includes Dale Toney, Belleview High School



The MSSC 25th Anniversary Commemoration & 2023 Instructors Conference included a panel discussion on Building Student Interest in Careers in Advanced Manufacturing. The first panelist, Dale Toney, is our very own Florida educator. Dale is the lead instructor for the Robotics, Automation and Design (RAD) Academy at [Belleview High School](#) in Belleview (Marion County). The RAD program is an Advanced Manufacturing program that uses industrial trainers and advanced curriculum to prepare Secondary students for highly skilled employment. Students can earn two industry certifications recognized nationally:



SolidWorks CSWA and the MSSC Certified Production Technician certifications.

Click the link below to watch the panel discussion on-demand. Dale Toney discusses his curriculum program which provides "double-credit" to the students since it provides academic credit (18 hours college credit) and industry certification. Many students who pass the industry certifications do a paid internship in 11th grade. Out of 30 graduates in 2023, 22 had one or both certificates. Watch from 5:00 in the video to learn about Dale's program and how to recruit students. Dale is followed by two other great panelists, both of those with a postsecondary focus.

Panel: Build Student interest in Manufacturing Careers

## Florida ET Program Updates

### Chipola College Hires New Faculty & Partners with the Community to Promote the ET Program

Chipola College in Marianna, Florida recently hired a full-time instructor to lead their 600-clock hour Advanced Manufacturing and Production Technology program. Caleb Rogers is a graduate of their Chipola College Workforce AS Degree in Engineering Technology and has been working with Ingram Signalization for several years. The ET program encompasses a range of skills including CAD, project management, quality, maintenance, CNC machines, computer controls, AC/DC electrical controls, a little welding, and some robotics / automation.



Darwin Gilmore, Dean of Workforce & Economic Development at Chipola recognizes that it is a critical time for our manufacturing, process and technology business partners who need this talent pool to succeed. Chipola College is reaching out to the local community to work together to fill their classes with students to help the area economy to strengthen and grow. Some of their efforts include:

- Making scholarship dollars available
- A planned manufacturing collaborative known as TPM (Talent Pipeline Academy) hosted by Tiffany Garling
- [FloridaMakes](#) and [LIFT](#) partner to bring DoD level advanced manufacturing knowledge to the Florida panhandle
- Career Camps coordinated by the Chamber of Commerce

CareerSource Chipola is implementing Augmented Reality and taking career exploration and more into each of the school districts in the area. **Chipola College has found that when they get secondary students on campus, the chance of enrolling them increases dramatically.** The college is planning more targeted school visits followed by tours of Chipola's college campus, so candidates see the world-class equipment utilized in this program!

Workforce Trifold

Curriculum Framework

## Engineering Technology Community Updates

**Max Sisson**  
**Gulf Coast State College**  
**Engineering Technology**  
**Instructional Coordinator**  
**November 2022**

Max leads three E.T. A.S. degree programs at Gulf Coast State College: Advanced Manufacturing, Alternative Energy & Digital Manufacturing. A Naval Officer since 1996, he came to Gulf Coast from the Naval Facilities Engineering Command (NACFAC) where he was the Project Management and Engineering Branch Head from 2019-2022. Welcome to the ET Community!

**Anthony DeTroia**  
**Eastern Florida State College**  
**Engineering Technology**  
**Faculty**  
**August 2022**

Anthony began working as a Manufacturing Engineer in 2003, working at manufacturing companies and as a consultant. In addition to his extensive resume in the field, he is also no stranger to teaching and has experience teaching manufacturing engineering accredited courses that include Inspection, CNC Machining, Manual Machining, Shop Math, Cutting tools, Blueprint reading and G-Code.

Watch for more ET Community Updates each month.  
If you have updates to share, please contact [teresa.potter@flate.org](mailto:teresa.potter@flate.org).



Upcoming Events

Register Now for the 2023 Fall ET Forum



September 28-29, 2023

Register Now








St. Johns River  
State College

Fall 2023

ET Forum


Thank you to our Fall 2023 ET Forum Sponsors!





Pasco Hernando State College  
AI and Business: What you Need to Know Presentation  
September 21, 2023, 6:00pm-7:30pm

AI and Business: What You Need to Know Now



You're Invited

September 21, 2023  
6 p.m. Networking  
6:30-7:30 p.m. Presentation

PASCO-HERNANDO STATE COLLEGE  
Instructional Performing Arts Center  
8657 Old Pasco Rd.  
Wesley Chapel, FL 33544

Join us to discuss how AI plays a huge role in healthcare, logistics and supply chain, marketing, finances and more. RSVPs are encouraged, but not required. PHSC staff, faculty, community and area businesses of all industries are welcome to attend. Email [Marie Burnham](#) or call 727-816-3711.

Statewide Webinar on Expanding CTE Opportunities



Thursday,  
September 28, 2023



Time  
11:30 AM - 12:30 PM ET

Join TSG Advisors - Education and ROOTS Education for a **Statewide Webinar on Expanding CTE Opportunities**. We will delve into highlights from the Workforce Development Capitalization Incentive Grant program and showcase opportunities for districts and colleges to innovate how they deliver manufacturing and robotics instruction. This interactive online event aims to bring educators, administrators, and stakeholders together from across the state to explore new ways to increase student attainment of valuable industry certifications.

2023 MakeMore Manufacturing Summit

The MakeMore Manufacturing Summit is an annual thought-leadership event that brings together the manufacturing ecosystem in order to help strengthen Florida's manufacturing sector, including identifying and solving key issues.

Who should attend? Organizations that have a stake in the Florida manufacturing sector; Florida manufacturers;





Individuals who are considered manufacturing thought leaders; Technical educators; Elected representatives.

Register for the Fall 2023 MakeMore Summit

## Manufacturing Institute Workforce Summit October 16-18, 2023 - Atlanta, GA



The 2023 Workforce Summit will focus on challenges and opportunities in sourcing solutions for skills, people and processes, focusing on attraction and retention strategies, training and skills development, and more!

Register for Manufacturing Insitute Workforce Summit!

## 2023 ATE Principal Investigator's Conference October 25-27 - Washington, DC



## Upcoming MFG Month Events

It's never too late to plan your Manufacturing Month event to get the word out about careers in manufacturing! See below for just a sample of some that are planned so far. Share with students and educators or get ideas for your own event.

Register your MFG Month Student Event Here

**Fall MECCA 2023**  
**October 3rd, 2023**  
**9 am – 2 pm**  
**St. Petersburg College**  
**Clearwater Campus**

Demonstrations, Exhibits, Presentations all on careers in Manufacturing, Engineering, Construction, and Architecture

Over 800 middle and high schoolers will be in attendance.

More info

**Discover Manufacturing!**  
**Free Weeklong Bootcamp**  
**October 2-5**  
**Manatee Technical College - Bradenton**

Career opportunities with employers  
VR Training  
Tour local mfg facilities  
Various Career Pathways  
Average hourly pay in manufacturing careers  
\$28/HR

More info

**Made in Central Florida Expo - Orlando**  
**October 24**  
**Orange County Convention Center**

Coordinated by the Manufacturers Association of Central Florida, the expo will connect industry to students, educators & administrators. Includes Student Design & Build Competition.

More info

**2023 Florida Manufacturing**

**8th Annual 5K for**



## Technology Oktoberfest October 3-4, 2023 - Tampa, FL



Come and talk with industry experts and participate in hands-on demonstrations while enjoying German inspired food, drink and festivities. A complete lineup from product concept to design, & engineering to manufacturing and final inspection.

For industry & educators!  
Measurement Supply 12820 Dupont Circle, Tampa, FL 33626

[More info...](#)

## Manufacturing Education Safety Harbor, FL - October 21, 2023



As manufacturing technology advances, finding talent to sustain these improvements becomes more challenging. To address this need, we invite you to join us for the 8th annual 5K for Manufacturing Education. Our past 7 events have yielded over \$167,000 for manufacturing career seekers! For sponsorship opportunities, contact

[marketing@mastercuttool.com](mailto:marketing@mastercuttool.com)

Register: run, walk or volunteer!



## 3D Printing/3D Scanning Lunch & Learn October 5, 2023 - 11AM - 2PM AmSkills (4606 Darlington Rd, Holiday)

An introduction to 3D printing and 3D scanning as well as a deep dive into reverse engineering. Learn from industry experts how you can unlock speed, innovation, and a more secure supply chain.

[Click here to register \(free\).](#)

## Stratasys Mobile Showroom Tour 2023 Hosted by Technical Training Aids October 4 - St. Petersburg College, Clearwater Campus

The Stratasys mobile showroom offers a convenient way for manufacturers, designers and educators to see the latest in 3D printing technology.



[More info & registration](#)

## Opportunities

### The Able Trust Looking for Summer Camp Partners Help Students with Disabilities Learn About Career Opportunities in Skilled Trades



According to the U.S. Department of Labor, 25.1% of people with disabilities work in Trade Professions. These jobs are crucial for maintaining everyday infrastructure and represent great career opportunities for all Floridians. The Able Trust is looking for business and industry leaders interested in partnering on summer career camps. As with our partnership with the **University of South Florida**, these are short camps that help students with disabilities learn about career opportunities, in skilled trades and other fields, as they plan to enter postsecondary education or the workforce.

If you would like to discuss this opportunity, contact Joey D'Souza at [Joseph@abletrust.org](mailto:Joseph@abletrust.org).



## The Inclusive STEM Teaching Project 6-week Open Online Course (Free)



The [Inclusive STEM Teaching Project](#), a National Science Foundation Improving Undergraduate STEM Education program, is hosting a six-week Massive Open Online Course (MOOC) from **October 2 - November 21, 2023** via edX. Join our community of almost 10,000 faculty, postdocs, graduate students, and staff, and [register](#) for our online course this fall. By participating in this course, you will learn how to:

- Advance your awareness, self-efficacy, and ability to cultivate inclusive classroom environments;
- Support your development as a reflective, inclusive practitioner;
- Engage in reflection and discussion around topics of equity and inclusion across a variety of institutional contexts;
- Implement inclusive teaching methods in your classes which will remove common barriers and enhance learning in STEM for all students.

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## SciIC13 "Science is Cool" PD Unconference (Free) September 21 - Virtual - Begins at 12PM



A full-day of virtual professional development broadcast live from the EdGames Expo in Washington D.C., a dynamic showcase of cutting-edge educational technology and

captivating games. Speakers will include renowned developers and STEM education experts who will share their classroom technologies and how they use art and design in creating them. Discover how to leverage the immersive nature of games to foster a deep understanding of scientific principles and learn how to successfully incorporate new technology into the classroom to teach students the 21st -century skills they need to succeed.

[For details and application](#)

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## X-STEM/USA Science & Engineering Festival Newsletter Open for a Chance to win Subscriber Gift Cards

Besides access to great content, you have a chance to win a \$50 Amazon gift card each month simply by opening the newsletters! Also receive a 2nd entry if you click a link, download a lesson, or watch a video.



The USA Science and Engineering Festival NGSS lesson plan writers are educators making an impact. Click below to access lesson plans including the following:

- Engineering with Purpose
- Engineering in Space
- Using Data Science to Solve Problems
- Engineering Designs to Solve Problems
- Real Life Robotics

[Lesson Plan Library & Newsletter Sign-up \(at bottom of page\)](#)

## News & Resources

### September is Workforce Development Month! Celebrate by Sharing Resources from Apprentice Florida

Apprentice Florida's Workforce Development Month Partner Toolkit, designed to enhance engagement and impact during the month of September, while sharing how registered apprenticeship programs help businesses across Florida bolster their talent pipelines.

Join us in celebrating the importance of workforce development in our state by sharing the resources in the Toolkit with your online audiences. The ready-made social media & newsletter copy make it easy to

help raise awareness and drive positive change during Workforce Development Month.



Workforce Development Month Toolkit

## ATE Advanced Manufacturing Career Videos on PBS Learning Media

In the ATE collection of media resources on PBS Learning Media, learn about 21st century technological careers and the skills they entail. Adapted for use by high school and community college students and teachers, these resources have been developed in collaboration with centers and projects in the National Science Foundation's Advanced Technological Education program.



Advanced Manufacturing Careers on PBS Learning Media

## FLATE 2022-23 Webinar Series - Watch on Demand

- Developing Local Articulations to Increase Enrollment in College Programs
- How to Create Work-based Learning Opportunities
- Recruiting Strategies Best Practices
- Robots for AI and Industry 4.0 Training and Demo
- Creating Videos using Classroom Projects and Student Success Stories
- How to Increase Student Diversity in ET Programs
- How to Develop ET Dual Enrollment or Early College Programs
- Cybersecurity for Manufacturing Series (4-part)



View Webinars on Demand

## FLATE Resources



[flate.org](https://flate.org)

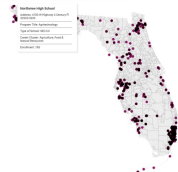


[FLATE wiki](https://flate.org/wiki)



[madeinflorida.org](https://madeinflorida.org)

Academic Programs at Secondary Education Curriculum Institutions that Support Manufacturers



**FLATE's Manufacturing Matters Dashboard**  
A tool highlighting manufacturing education, careers, industry, and their impact on Florida's economy.

Click here for FLATE's Manufacturing Matters FL Dashboard



Florida's Workforce Education Initiative

With Career, Technical and Adult Education (CTAE), you can train for a better career quickly and affordably.



Apprenticeship programs are a proven training method benefiting job seekers and businesses.

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**Check Out Our Previous Newsletters:**

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