

# FLATE FOCUS

July 2024



## Spotlight on our 2024 FLATE Award Winners

*Awardees will be recognized at the FACTE Annual Conference and Trade Show in Ponte Verde Beach, FL this Week!*

**17<sup>th</sup> Annual  
FLATE AWARD WINNERS**

 <b>Manufacturing Secondary Educator of the Year 2024</b> <b>David Yocum</b> Anclote High School Holiday, FL	 <b>Manufacturing Post-Secondary Educator of the Year 2024</b> <b>Gil Burlew</b> Manatee Technical College Bradenton, FL	 <b>Manufacturing Partner Service Award 2024</b> <b>Pauline Sevigny</b>  Jacksonville, FL	 <b>Most Innovative Manufacturing Month Student Event Award</b> <b>Bausch+Lomb</b> Manufacturing Month Student Tours Tampa, FL	 <b>Most Innovative Manufacturing Month Student Event Award</b> <b>St. Petersburg College</b> MECCA Discovery Day Clearwater, FL
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## Congratulations to Pauline Sevigny 2024 FLATE Distinguished Manufacturing Partner Winner



Congratulations to Pauline Sevigny, President, GRACE Aerospace, LLC for her outstanding contributions to manufacturing and engineering technology education. GRACE Aerospace is a member of the First Coast Manufacturers Association, specifically participating on the Workforce Development Steering Committee. Pauline serves as Co-Chair of this Committee. As part of this initiative, the GRACE Aerospace team works with local high schools and colleges to educate youth on the benefits of a career in manufacturing. They have provided on site tours, visited schools, made videos, participated on educational panels, and employed interns and apprentices to give them exposure to the manufacturing environment and spark their interest in a field they may not have considered. When asked why she thinks manufacturing education is important, Pauline states that

*"Over 20% of the United States will be over 65 by 2050 and currently, Florida is rated #10 in the country for Manufacturing. It is critical that we provide today's students with the knowledge they need to understand a career in manufacturing can be lucrative and interesting. We need to expose current students to manufacturing environments, job opportunities, and educate them on the skills needed to be successful in manufacturing. This is a*

*key sector in Florida and manufacturers need to ensure that we have an excited, well-educated and well-equipped workforce to lead the next generation of manufacturing."*

Read Full Article

## 2024 FLATE Most Innovative Manufacturing Month Student Event Award Winners

The Winners for the Most Innovative Manufacturing Month Student Event Award, both from the Tampa Bay area, were honored at the Bay Area Manufacturers Association Annual Banquet on June 20th.

Congratulations to our winners who tied for 1st place:

- Bausch + Lomb: 2023 Manufacturing Month Student Industry Tours in Tampa.
- St. Petersburg College: 2023 Manufacturing, Engineering, Construction, and Architecture Expo (MECCA) Discovery Day” in Clearwater.



Bauch + Lomb, in partnership with Workforce Development Partners (Hillsborough County), Future Career Academy, and the Bay Area Manufacturers Association (BAMA), held multiple Manufacturing Month Tours. Students from King High School, Freedom High School and Buchanan Middle School visited Bauch + Lomb Pharmaceuticals in Tampa and gave them exposure to production operations and different job levels along with information on salary and benefits. Students were excited and eager to learn more when surveyed. [Click here to watch news coverage of the King High School visit.](#) (Don't forget: Student tours can be held any time through the year, not just in October!)

St. Petersburg College holds their annual Manufacturing, Engineering, Construction, and Architecture Expo (MECCA) Discovery Day Expo in the Spring. This event aims to inform and excite middle, high, and postsecondary students to understand that there are career options they can pursue that they may not hear about at home, an opportunity for all students to explore and experience career opportunities in these growth industries: manufacturing, building arts, engineering, and architecture and other related fields. At the 2023 event, 42 manufacturing employees from 22 manufacturers from the Tampa Bay area shared information on local career opportunities. In addition to 7 Pinellas County middle and high schools, many homeschool association students and postsecondary students attended as well.

Read Full Article

## FLATE NEWS

**Join us on August 29th to  
Get Ready for Manufacturing Month!**

# Get Ready for Manufacturing Month

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

**National Manufacturing Day - October 4, 2024**

*Thursday, August 29, 2024*  
3:30 PM - 4:00 PM ET

**REGISTER NOW**



**Register now for the Fall 2024 ET Forum**  
Sept 26-27, 2024 - Boca Raton, FL




September 26 - 8:30AM - 5PM  
September 27 - 8:30AM-1PM

Palm Beach State College  
Boca Raton Campus  
801 Palm Beach State College Dr.  
Boca Raton, FL

## Building the Talent Pipeline: St. Petersburg College ET Program Hosts 2024 Summer Camps

**St. Petersburg College**



*Excellence in education since 1927*

Robotics and Engineering Technology Camps take students on an in-depth exploration of technologies used in high-tech manufacturing environments. Students develop real-world skills in programming through hands-on exploration of STEM-related topics in robotics. This summer, St. Petersburg College's Engineering Technology (ET) program hosted two summer camps for middle and high school kids at its Clearwater campus. Both included visits to local companies to learn about their career opportunities.

**Nuts Bolts and Thingamajigs (NBT) Manufacturing Camp**  
June 3-7

**The Future of Robotics and Mechatronics (FORM) Camp**  
June 24-28



Greg Lewis and Dr. Andres Cardenas were the 3D Design and Mechatronics coaches for:

- Introduction to Electronics and Mechatronics
- Creating a siren circuit and a transistor-based touch-on light
- Creating circuits which were interfaced to micro-bit and Arduino microcontrollers
- Creating solid works drawings and 3-D printing their designs.

Campers visited Draper Labs and Inventorium Robotics.



Sponsored by the City of Clearwater, this camp included: working with SPC's cobot, relay boxes, PLC trainers, industrial robots, and pneumatic trainers. Campers also:

- Operated a prosthetic claw (for amputees) with their own muscles.
- Programmed a micro-bit bot and completed the assembly and programming of a 4-degrees of freedom robotic arm.
- Visited the MONIN U.S. Headquarters and Flavor Innovation Center

Read full article

## ATE and Economic Development Update Data from the Hidden Innovation Infrastructure (HII) Team

### ATE AND ECONOMIC DEVELOPMENT Data from the Hidden Innovation Infrastructure (HII) Team

#### DATABYTES FROM THE ATE EVALUATE SURVEY

ATE projects with a stated economic development goal/outcome



Primary field of these projects	% of projects with stated economic development goal/outcome
Manufacturing	67%
Bi and chemical technologies	10%
Agricultural and environmental technologies	4%

ATE projects reporting a stated economic development goal/outcome worked in a variety of fields. Among these, manufacturing and bi and chemical services were most likely to report a stated economic development goal.

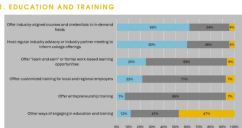


#### DEFINITION FOR THE ROLE OF TECHNICAL EDUCATION IN ECONOMIC DEVELOPMENT

Community colleges are critical to economic development. They provide a pathway for students to gain the skills and knowledge needed to enter the workforce. The success of these programs is dependent on the support of the community, the state, and the federal government.

ATE Projects' Participation in Activities Related to Economic Development

#### 1. EDUCATION AND TRAINING



Does your ATE project engage in any of the following?

Yes No Missing

Source: NSF ATE Center, 2018. Data from the Hidden Innovation Infrastructure (HII) Team.

Every year the NSF ATE grantees respond to a survey from the EvaluATE Center ([www.evaluate.org](http://www.evaluate.org)) so ATE program data can be aggregated. The survey asks about new curriculum, student impact, professional development and industry engagement. Additionally, EvaluATE hosts a special section each year with questions from one of the ATE projects.

The Rutgers, Hidden Innovation and Infrastructure Project (2026262) provided several “special” questions about how grantees collaborated with regional economic development organizations. The project’s goal is to better define what Economic Development is for community college technical program and common and innovated activities that illustrate these partnerships.

The survey results suggest that Career and Technical Education (CTE) programs are participating in regional economic development and should be talking about their work in these terms. Ultimate outcomes from the Rutgers HII project will suggest some guidelines for doing so and possibly some potential metrics.

Click for Infographic of survey results

# Upcoming Events

## FLATE Educator Workshop - Edge Computing August 8-9 at Hillsborough Community College



**AUGUST 8-9  
2024**

### FLATE EDUCATOR WORKSHOP

**AUGUST 8: 9:30 AM - 4:00 PM & AUGUST 9: 8:30 AM - 3:00 PM**

#### Edge Computing A Feasible and Integrated Approach to Collecting System Data

This hands-on workshop is for technical educators who want to learn more about equipment data collection and management as a simulation of production processes. Attendees will use a Raspberry Pi set up to simulate data collection and manipulation with industrial sensors in an industrial setting.

**HILLSBOROUGH COMMUNITY COLLEGE  
BRANDON CAMPUS  
10451 NANCY WATKINS DR., TAMPA, FL  
STUDENT SERVICES, B55B 215**

The workshop will cover:

- Introduction to Environmental Monitoring
- Sensors and Measurement Techniques
- Hardware Integration
- Software Setup and Programming Basics
- Data Collection and Management
- Data Analytics and Visualization
- Advanced Data Analysis Techniques
- IoT and Cloud Integration
- Artificial Intelligence integration

Lunch will be provided. Lodging will be covered for Florida educators who live more than 50 miles away. A \$200 stipend will be provided for those who complete the workshop. An additional \$200 will be given for those who implement the workshop activities in a fall 2024 semester. Requirements for this stipend will be provided during the workshop.

**Register Now**

QUESTIONS? CONTACT: MARILYN.BARGER@FLATE.ORG

Attendees of the full 2 days will take home a kit to use at their home institutions.

FLATE  
SOUTH FLORIDA  
College of Engineering  
HILLSBOROUGH  
Community College  
FLORIDA DEPARTMENT OF  
EDUCATION  
FLORIDA STATE BOARD OF  
TECHNICAL EDUCATION

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The workshop will cover:

- Introduction to Environmental Monitoring
- Sensors and Measurement Techniques
- Hardware Integration
- Software Setup and Programming Basics
- Data Collection and Management
- Data Analytics and Visualization
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Lodging will be covered for Florida educators who live more than 50 miles away. A \$200 stipend will be provided for those who complete the workshop. An additional \$200 will be given for those who implement the workshop activities in a fall 2024 semester. Requirements for this stipend will be provided during the workshop.

[Register for a Spot on the Waitlist](#)

## 2024 HI-TEC Conference July 29-Aug 1, 2024 - Kansas City



HI-TEC is a national conference on advanced technological education where secondary and postsecondary educators, counselors, industry professionals, trade organizations, and technicians can update their knowledge and skills. Charged with *preparing America's skilled technical workforce*, the

event focuses on the preparation needed by the existing and future workforce for companies in the high-tech sectors that drive our nation's economy.

It's not too late to  
[Register!](#)

## New FANUC HandlingTool Class September 9-12, 2024 College of Central Florida (Ocala)

The College of Central Florida's Corporate College is offering FANUC HandlingTool Operations held in-person on the Ocala Campus



of the College of Central Florida. The FAST designation from FANUC will allow machine operators, programmers, maintenance professionals and machine tool builders to receive a certificate of completion from the only FANUC Authorized Satellite Training Center in Florida.

Register Now through August 22nd

## 2024 ACTE Region II Conference September 23-27, 2024 Florida Hotel, Orlando, FL



The Florida Association of Career & Technical Education (FACTE) is honored to host the 2024 ACTE Region II Conference! ACTE Region II is comprised of 8 member states and 3 territories: Alabama, Florida, Georgia, Kentucky, North Carolina, South Carolina, Tennessee, Virginia, the Commonwealth of the Bahamas and the territories of Puerto Rico and the U.S. Virgin Islands.

Registration Open Now

## Opportunities for Educators

### Online Grant Proposal Preparation Workshop for Two-Year Colleges - Community College S-STEM Network Fridays at 3:30PM - Oct 11 - Feb 28

This workshop helps participants from two-year colleges to develop and submit proposals to the National Science Foundation Scholarships in Science, Technology, Engineering, and Mathematics Program (S-STEM).

The NSF S-STEM program provides grants to institutions of higher education to support their recruitment, retention and graduation rates.

Who should attend:

- STEM faculty
- STEM Deans, Dept Chairs
- Institution Grant Officials
- Student Support Services Directors

Live online. No cost for two-year college faculty and staff accepted into the workshop.

**NSF S-STEM Grant Proposal Preparation Workshop for Two-Year Colleges**

This Online Grant Proposal Preparation Workshop for Two-Year Colleges, led by former NSF program officers, helps participants from two-year colleges to develop and submit proposals to the National Science Foundation Scholarships in Science, Technology, Engineering, and Mathematics Program (S-STEM).

The NSF S-STEM program provides grants to institutions of higher education to fund scholarships for academically talented low-income students implement a program of activities that support their recruitment, retention and graduation in STEM.

**Two tracks SIM and SZM awards (60% for scholarships, 40% for other supports)**

**NSF S-STEM Program (NSF 24-511)**  
<https://new.nsf.gov/funding/opportunities/nsf-scholarships-science-technology-engineering>

**Who should attend:**  
 STEM faculty  
 STEM Deans, Associate Deans or Department Chairs  
 Institution Grant Officials  
 Student Support Services Directors

**Live Online**

**Cost: No cost for two-year college faculty and staff accepted into the workshop.**

**Dates: Fridays at 3:30 pm Eastern Time, October 11, 2024 to February 28, 2025.**

APPLY NOW Scan QR code for more information and link to application form

This workshop is supported by the National Science Foundation under Grant No. 2224671 and 2224623.

## FREE High School Science Educators Workshop at the AVS 70th International Symposium in Tampa, FL

November 4-5, 2024

Upon completion of the workshop, teachers receive at no cost:

- 1.5 Nationally certified CEU's or 150 sixty-minute clock hours from the University of Dayton
- A vacuum system for their school identical to ones used in the workshop (valued at \$1200)
- Travel Support



Science and Technology  
of Materials, Interfaces, and Processing

The workshop starts with pump operation basics and simple demonstrations, current industry applications, but evolves to the interplay of experimental data, theory, and models. Teachers get hands on experience with these ideas using vacuum pumps and equipment that they will receive from the society. **[Click here for a report from a past attendee.](#)**

[Click for Workshop Information and to Apply for Sponsorship](#)

## FLATE Resources

### FLATE Webinar Series - Watch on Demand

- **Edge Computing: A Feasible & Integrated Approach to Collecting System Data (New - June 2024)**
- A Universal Programming Approach for any make of Programmable Logic Controllers (PLCs) - May 2024
- Best Practices for your CNC Course or Program - April 2024
- Overview of AI in Manufacturing - April 2024
- Overview of Teaching PLCs
- Leveraging an Open Lab to Provide Greater Access for Students in your Manufacturing Program
- 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)
- Overview of Teaching PLCs - added Feb 2024



[View Webinars on Demand](#)



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

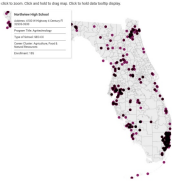


[FLATE wiki](http://FLATE wiki)



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

**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 Department of Education Resources

**GET THERE**

Florida's Workforce Education Initiative

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

**APPRENTICE  
FLORIDA**

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

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