

# FLATE FOCUS



May 2024



## Congratulations to the 2024 FLATE Distinguished Manufacturing Education Award Winners!

FLATE's annual awards recognize educators and industry colleagues who have stepped beyond their call of duty to promote excellence in manufacturing-related education and training on a regional and/or statewide level. FLATE, FloridaMakes and FAITE (Florida Association for Industrial and Technical Educators) are pleased to announce the 2024 Winners!

- **David Yokum**, Advanced Manufacturing Teacher, Anclote High School, Holiday, FL, will receive the *Distinguished Manufacturing Secondary Educator-of-the-Year Award*.
- **Gil Burlew**, Advanced Manufacturing & Production Instructor, Manatee Technical College, Bradenton, FL, will receive the *Distinguished Manufacturing Post-Secondary Educator-of-the-Year Award*.
- **Pauline Sevigny**, President, Grace Aerospace LLC, Jacksonville, FL will receive the *Distinguished Manufacturing Partner Service Award*.
- *Most Innovative Manufacturing Month Student Event Award Winners (tie for 1st):*
  - **St. Petersburg College** for their 2023 Manufacturing, Engineering, Construction, and Architecture Expo (MECCA) Discovery Day, Clearwater, FL. Partners for this event included Pinellas County Schools, Urban League, and Homeless Empowerment Group.
  - **Bausch + Lomb Pharmaceuticals** for their Manufacturing Month Student Industry Tours, Tampa FL.

[FLATE Awards Sponsorships Available. Click here for details.](#)

[Read Full Article](#)

## FLATE News

### Statewide Engineering Technology Industry Advisory Board



The Statewide Engineering Technology Industry Advisory Board (SETIAB) met on Thursday, April 4, 2024, the first evening of the Spring Engineering Technology Forum (ET Forum) at State College of Florida, Bradenton, FL.

One of the goals of the SETIAB is to ensure that the Engineering Technology programs offered around the state continue to meet the rapidly evolving needs of industry. During this meeting, the Board reviewed, discussed and approved the standards and benchmarks for a new specialization under the ASET program - "Advanced Automation" - and made the recommendation to move the specialization forward to the FDOE.

The current board has 11 industry representatives representing Florida's state and community colleges that currently offer the ASET degree program, as well as representatives from FloridaMakes, K-12 CTE and the Florida Department of Education. Non-voting members of the board include ASET colleges members and FLATE.

[SETIAB Website](#)

## Congratulations HI-TEC Fellow Recipients from Florida

HI-TEC is a national conference on advanced technological education. The HI-TEC Executive Committee is committed to expanding the conference to advanced technology faculty who do not know about HI-TEC or have not yet been able to attend. Each year faculty are selected from recommendations by the NSF ATE Centers and the HI-TEC Executive Committee. Fellows receive free registration and lodging at the conference hotel. Additionally, they meet with the Fellowship Committee for conference orientation and are recognized at the Awards luncheon during the conference being held July 29-Aug 1, 2024.



Dr. Sidney Martin  
Program Director, Engineering Tech  
St. Petersburg College



Dr. Mehdi Miri  
Professor, Engineering Technology  
Polk State College

### ***Industry Insights: A Conversation with Manufacturing Employers - Florida ET Students Highlighted!***



The Necessary Skills Now Network hosted an engaging discussion on April 24 between employers and students preparing to work in the manufacturing sector. A panel of industry representatives and community college students discussed the importance of employability and professional skills in today's workplace. Industry panelists were from Siemens, Framatome, Dynamic Machining X Manufacturing (DM<sup>2</sup>), and Salem 1, Inc.

The virtual panel took place after 2 cohorts of faculty integrated the Necessary Skills Now curriculum into their manufacturing programs. The 2023-2024 cohorts included Engineering Technology faculty from Hillsborough Community College, St. Petersburg College, College of Central Florida, and Daytona State College.

The three students selected for the panel were:

- Moira Johnson, BS Engineering Tech student at Daytona State College
- Jared Willis, Electronics Engineering student at St. Petersburg College
- Ralbert Garcia, Electronics Engineering Tech student at St. Petersburg College

Listen to what manufacturing employers have to say about what they are looking for.

[Listen to the Webinar Recording](#)

## Upcoming Events

### **CyAD Conference: Cybersecurity Across Disciplines June 12-13, 2024, Moraine Valley Community College**



Discover how to integrate new technologies into your classroom and gain a broader understanding of cybersecurity's role in different disciplines. For community/technical college faculty from both cyber and other fields including manufacturing. Travel stipend available for eligible faculty traveling from outside the area of the event.

[Registration open until May 20](#)

## ASEE 2024 Annual Conference and Expo

## Portland, OR - June 23-26, 2024



The American Society for Engineering Education Conference is an opportunity to share individual and collective work in engineering education. Discounted rates for K-12 educators and 2-year college faculty!

[Register Now](#)

## 58th Annual FACTE Conference & Trade Show

The Florida Association of Career & Technical Education is the only organization in the state that is solely dedicated to representing the interests of career and technical educators.

[Click here to join FACTE.](#)  
[Click here to Register for Conference.](#)

## 17th Annual CNC Haas Technical Educators Conference July 22-25, 2024 - Minneapolis, MN



Haas Technical Education Conferences throughout North America and Europe are a great way to network with fellow educators, talk with HTEC partners, and hear from industry leaders about what's going on in the world of advanced manufacturing education education.

[More Info & Registration](#)

## 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.

[Register Now!](#)

## 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.

[Presenter Proposals Due June 1, 2024](#)

## Opportunities for Educators

## "Open-Door" Funding Pays for Fast, Valuable, Online Professional Development at State College of Florida

Do you, your students, family, or friends want to upskill your coding or technical skills online and earn an industry license using *Open Door* supplemental funding? This is a great time for you or one of your students to consider taking either a Cybersecurity boot camp or a 2-month licensure training online at the SCF Advanced Technology Center, on a variety of innovative topics such as:

- AWS Cloud Practitioner
- CompTIA: A+, Network+, Security+
- HTML/CSS: User Experience / User Interface
- Java and JavaScript
- Python
- WordPress

Courses are conveniently offered online and in the evenings. Scholarships are ongoing. Questions? Contact the SCF Success Coach, Christy Matta, at [MattaC@scf.edu](mailto:MattaC@scf.edu).



For more information & to Register

## AACC MentorLinks Announces Cohort 2024-2026 Looking for Colleges & Mentors!



The MentorLinks: Advancing Technological Education program, supported by the **National Science Foundation** is designed to help colleges develop or strengthen technician training programs in STEM fields through mentoring, professional development opportunities, and technical assistance; to establish

connections for colleges to identify new ideas and relationships through networking opportunities at program meetings and Advanced Technological Education (ATE) National Conferences; and to help colleges gain insight about support for building and sustaining new programs. The grant period runs October 1, 2024–November 30, 2026

### Request for Proposals:

**Colleges Deadline May 30, 2024**  
Colleges receive \$30,000 for the 2-year grant period and travel support for the project director.

Apply by May 30, 2024

### Request for Applications:

**Mentors Deadline May 30, 2024**  
For community college employees & individuals closely aligned with community college STEM programs.

Apply by May 30, 2024

## National Center for Next Generation Manufacturing 2024 Summer Teachers' Virtual Workshop - June 20-25



Free virtual Professional Development. Technology topics include: Programming using micro:bits, DC Electrical Circuits, 3D Printing/Additive Manufacturing, and SolidWorks 3D Modeling. Earn Professional Skills and Technical Skills Microcredentials. Over \$460 in materials will be provided including one-year online educational version of SolidWorks CAD Software, micro:bit kit, electrical components kit, DISC and Emotional Quotient personal assessments, DISC and Emotional Quotient

workbooks and reference materials. Participants will be eligible to receive up to \$750 in stipends (\$500 for participation in workshop and completion of evaluation materials; \$250 upon submission of curriculum for use in classroom).

For more info and to Apply by May 24

## National IT Innovation Center - 2024 Summer Working Connections



### Cutting-edge Professional Development Workshops In-person week at Collin College in Frisco, Texas – July 15-19

#### **REGISTER FOR IN PERSON**

1. [Advanced Data Analytics](#)
2. [AWS Academy Cloud Architecting](#)
3. [Cyber Buffet](#)
4. [Generative AI Tools in the Classroom](#)
5. [Securing the Foundation: A Hands-On Cybersecurity Workshop for Critical Infrastructure](#)
6. [Teaching Mobile App Development](#)

#### Online week – July 22-26

#### **REGISTER FOR ONLINE**

1. [A.I. Foundations](#)
2. [Fundamentals of the Cloud](#)
3. [Introduction to Data Analytics and Visualization with PowerBI, Tableau and KNIME](#)
4. [Intro to Python](#)
5. [Machine Learning Security](#)

## Working Partners Workshop May 21 - July 16 1:30PM - 3PM ET



Highly recommended by Florida state college faculty who have attended, This FREE professional development workshop supports educators with planning, initiating, sustaining & assessing industry-education partnerships.

As a bonus, participants will also be eligible to receive funding to attend the 2024 HI-TEC conference held July 29 - August 1 in Kansas City, MO.

Time commitment: Approximately 2 to 3 hours per week (90 min live session + time online).

Teams of two are welcomed, as are individuals.

For more info and to apply:  
[www.workingpartnersproject.org/information--registration.html](http://www.workingpartnersproject.org/information--registration.html)

## 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



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](#)

## Opportunities for Students

### STEM Scholarships to Share with Students

**\$500-\$1000 Student Scholarships for**

**FPL Robotics Scholarship**

## College of Central Florida Students Apply by June 1st

**\$5,000**

The Mid-FL Regional Manufacturers Association is sponsoring scholarships for College of Central Florida students interested in Manufacturing, Logistics or Supply Chain Management. Can be used for tuition, books, fees or housing.

Scholarship opportunity to reward FIRST® students whose experience has inspired their interest in an engineering or information management career. Awarded to a high school senior who has two or more years in an FTC or FRC program in FPL's service area. Renewable each year, up to \$20,000.

Apply by June 1

Apply by May 15

## STEM Summer Camps to Share with Students



**July 8-11, 2024 - Ocala**

### Robotics Camp

A STEM camp for rising 8th graders featuring LEGO Mindstorms and robotics.

[REGISTER](#)

**July 15-18, 2024 - Ocala**

### Robotics Camp

A STEM camp for rising 9th and 10th graders featuring Python programming and robotics.

[REGISTER](#)

*Financial assistance based on need may be available for both camps.*

## SPC St. Petersburg College

**June 3-7, 2024**

**St. Pete College**

**Clearwater Campus**

**Students 13-16 years of age**

### Mechatronics and 3D Design Camp

The final project will be an electronic memory game the students manufacture and program during the week. Includes a tour to a local manufacturer.

Registration fee includes a 1-year license for SolidWorks and a certificate of completion!

[REGISTER](#)



## SCF CODING ACADEMY

### State College of Florida (Bradenton) - Summer STEM Camps

June 10th - 14<sup>th</sup>, 9 a.m. to 3 p.m., rising 6<sup>th</sup> – 8<sup>th</sup> grades  
**Introduction to Robotics - Middle School**

June 17th - 21<sup>st</sup>, 9 a.m. to 3 p.m., rising 6<sup>th</sup> – 8<sup>th</sup> grades  
**Intermediate Robotics - Middle School**

**Ethical Hacking & Manufacturing**  
**June 24-28 9AM-3PM**  
**6<sup>th</sup> – 11<sup>th</sup> grades**

Explore the exciting realm of white hat hacking, learning the ropes of cybersecurity with a moral compass.

**Futuristic Finishing**  
**July 8- 12 9AM-3PM**  
**6<sup>th</sup> – 11<sup>th</sup> grades**

Explore the fascinating world of manufacturing, cutting-edge finishing techniques like alternate substrates, low-temperature cure, and carbon fiber innovations.

**AI Manufacturing**  
**July 15-19 9AM-3PM**  
**9<sup>th</sup> – 11<sup>th</sup> grades**

Dive into the cutting-edge world of AI manufacturing, where campers fuse Arduino electronics with Echo Dot for hands-on AI experiences.

Learn more about SCF Coding Academy Camps

## Resources

### New FREE STEM Resource (State-funded): Learning Blade for Florida Middle Schools



**Learning Blade** is being provided via state funding and in collaboration with the Florida Association of District School Superintendents (FADSS). It is an online platform that provides interactive and engaging lessons on various STEM topics. Designed for students in grades 5-9, it offers a unique learning experience that encourages critical thinking, problem-solving, and exploration of STEM careers. Learning Blade also includes a 20-hour "Introduction to Coding" course designed for middle schools.

This comprehensive CTE/STEM/CS middle school resource aligns with FL educational standards grades 5-9 and offers a wide range of "Missions" covering topics such as advanced manufacturing, renewable energy, cybersecurity, and much more. With over 400 online career-oriented lessons and offline project-based lessons, Learning Blade brings real-world applications to the classroom, inspiring students to pursue exciting opportunities and career paths.

[Register for Learning Blade](#)

## FLATE Resources

### FLATE Webinar Series - Watch on Demand

- 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)

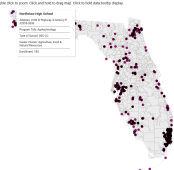


[FLATE wiki](#)



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

Academic Programs at Secondary Education Curriculum Institutions that Support Manufacturing



### 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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