

Excellence in engineering technology education.



**FLATE**  
FLORIDA ADVANCED  
TECHNOLOGICAL EDUCATION  
A NATIONAL SCIENCE FOUNDATION  
CENTER OF EXCELLENCE

Supporting Florida Manufacturers

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## A LETTER FROM DR. MARILYN BARGER EXECUTIVE DIRECTOR OF FLATE

It is with great pleasure and pride that FLATE brings you this view book, a snapshot of the Engineering Technology (ET) associate in science (AS) degree in Florida. We feel privileged to be part of this statewide Florida Department of Education (FLDOE), Florida State and Community College System, and industry partnership effort. The well-respected AS in ET degree includes two highly valued industry credentials: national certifications and industry-focused degree specializations. Together they provide the framework of a flexible, yet rigorous career pathway solution for Florida's advanced manufacturing sector.

It has been a remarkable journey from the fall day late in 2005 when the FLATE team first met with colleges to brainstorm solutions to issues common within their programs. A series of productive idea sessions—along with meaningful research, a partnership with FLDOE and strong industry support—generated the momentum to create a program that benefits students, workers, industry and college programs. Two years of hard work became the foundation of an interactive, tightly connected community of practice supporting the diversity of manufacturing and advanced technology industries across the state.

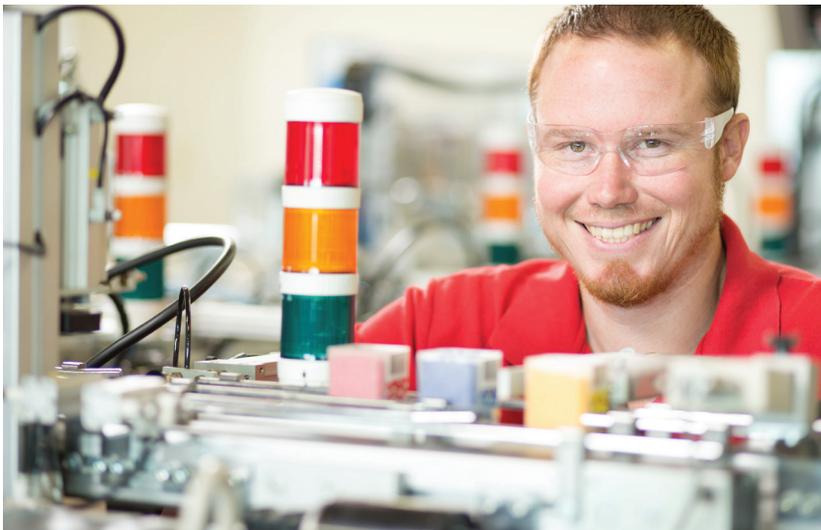
FLATE dedicates this publication to everyone involved with the ET degree and to those considering its implementation in their institutions. We also would like to acknowledge the National Science Foundation for their long-term support and confidence in our approach. Together we have put Florida's engineering technology educational and career pathways on the map. The AS in ET degree program has become the model of the Florida Plan for Career and Technical Education. However, there are still “miles to go before we sleep.” As the ET degree continues to grow, more colleges need assistance with finding the best way to support their local industries; more educators need professional development in integrating new technologies into their curricula; more companies need to be contacted and heard; and more students need to get excited about manufacturing careers. Thank you for sharing this journey.



## PATHWAYS TO HIGH-TECH CAREERS

Now available at many colleges throughout Florida, the engineering technology (ET) degree and certificate program provides students with several pathways toward high-tech careers in the state's diverse and expanding manufacturing industry. The FLATE Center has paved the way for a statewide curriculum that offers an associate in science (AS) degree with 10 specialization tracks and 15 technical college certificates.

The two-year AS degree includes fundamental industry-wide technical competencies that support advanced education and training options needed for specific manufacturing sectors.



### YEAR ONE

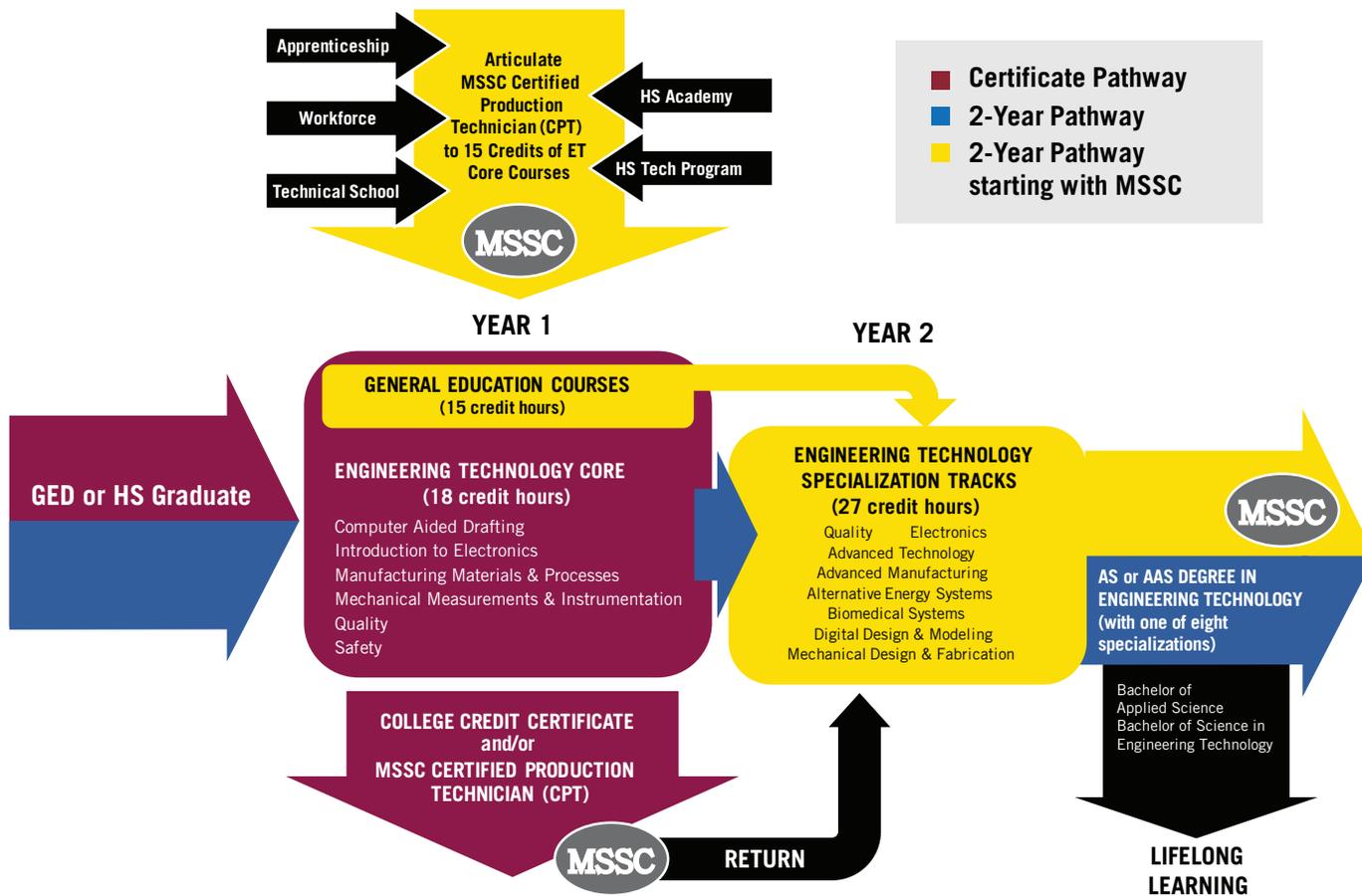
ET students tackle general education courses and a core curriculum that aligns with the Manufacturing Skills Standards Council (MSSC) Certified Production Technician (CPT) credential.

### YEAR TWO

ET students focus on a specialization track with both required and elective course options, customized to each college's local industry needs.

The ET degree serves as a vital component in a larger, statewide curriculum project that includes high school technology programs and career academies, incumbent worker training, and bachelor's degree programs. The statewide articulation makes the process for entering AS in ET programs seamless for both high school students and workers who hold valid credentials. Embedding the MSSC skill standards into the ET core provides a relevant articulation pathway from secondary programs that address these same industry skills. It also provides a pathway for incumbent workers to gain college credit for experience through certifications.

# FLATE CURRICULUM MAP



## WHAT IS FLATE?

Located at the Hillsborough Community College (HCC) Brandon Campus, the Florida Advanced Technological Education (FLATE) Center is a National Science Foundation (NSF) Center of Excellence serving the entire state of Florida. FLATE's mission is to enhance and promote the technician workforce for advanced technologies in the United States by partnering with industry in curriculum reform and development; student recruitment, outreach and retention; and professional development for technical secondary and postsecondary educators. FLATE's leadership is a partnership between HCC, St. Petersburg College (SPC) and the University of South Florida's College of Engineering (USF COE).

## WHERE DO ET GRADUATES GO NEXT?

ET graduates may seamlessly transfer to Bachelor of Applied Science (B.A.S.) degree programs offered at many Florida colleges and universities, or transfer to Daytona State College's Bachelor of Science (B.S.) in engineering technology degree program. They may also move directly into the workforce as skilled technicians. ET students who earn college credit certificates may build their skills and move forward in current or future jobs, or return to work toward a bachelor's degree.

## EQUIPPED FOR SUCCESS

### OUR PROGRAM

In the heart of Tampa's high-tech corridor, HCC leads the way in ET education with a progressive AS degree program in the cutting-edge facilities housing the FLATE Center.

ET students at HCC prepare and train for lucrative technology careers in Florida's vibrant advanced manufacturing industry. Some are new to the industry and others seek to build their current technical skills, advancing them to the next level of their careers.

HCC's program offers an advanced manufacturing specialization, along with four college credit certificates in automation, engineering technology support specialist, lean manufacturing, and pneumatics, hydraulics and motors for manufacturing. AS degree graduates may choose to pursue a bachelor's degree at a four-year college, or move directly into a position with a local, high-tech manufacturing company.



# HCC

[hccfl.edu](http://hccfl.edu)

### OUR TECHNOLOGIES

With access to unique, specialized equipment related to all technologies in the curricula, ET students at HCC gain firsthand experience that seamlessly prepares them for the future.

The ET laboratory is equipped with six programmable logic controller (PLC) stations, six fluid power training stations, an electric motors and controls unit, and a process control system. These learning systems enhance an understanding of electric motors, motor control and process control techniques, as well as troubleshooting with computer-interfaced systems. A robotic arm and VEX robots offer practice in programming and operation of industrial robots.



"HCC's program made me a strong contender for an engineering-related job."

Burton Bellamy, HCC ET program graduate, technician at Doosan Hydro Technology



Rare in training programs across the country, our students work with an on-site 3D printer, coordinate measuring machine, 3D modeling, and AutoCAD in conjunction with engineering design, prototyping, and metrology courses. And a Highly Automated System (HAS 200) supports education and training in automation, production control and inventory, and statistical process control, along with systems integration and troubleshooting.

### PARTNER COMPANIES

Adams Air & Hydraulics, Inc.  
Ball Corporation  
Bausch & Lomb  
Chromalloy Castings  
Conmed Linvatec  
Cvista  
Doosan Hydro Technology

Heat Pipe Technology, Inc.  
InCryoSystems, Inc.  
Leslie Controls  
Southern Manufacturing Technologies  
Sypris Electronics, LLC  
Vulcan Machine, Inc.



**CONTACT:** [aanalone2@hccfl.edu](mailto:aanalone2@hccfl.edu), 813.253.7852



## SHAPING OUR WORLD

[broward.edu](http://broward.edu)

### OUR PROGRAM

At South Florida's helm, Broward County is experiencing rapid job growth for biomedical, electronics, telecommunications and computer engineers—steering Broward College ET graduates toward excellent career opportunities.

Offered at Broward College's North Campus, the AS degree in ET program delivers a planned sequence of instruction tailored for three specializations: electronics, alternative energy and biomedical systems with the ET technical core. Core classes provide training in safety; quality and measurement; manufacturing processes and production; and maintenance awareness. Students may also earn three college credit certificates: basic solar technician, electronics solar technician and biomedical engineering.

Emphasizing practical training, Broward College's state-of-the-art laboratories are equipped with the newest technologies to support regional manufacturing industries. These include trainers for PLCs, hydraulics, pneumatics, motors, control systems, automation and mechanical linkages.

Beyond traditional programs, Broward College's ET degree features a dynamic dual enrollment program with Boyd Anderson High School, where students can get started on careers in advanced manufacturing at an early age.

### PARTNER COMPANIES

Federal Aviation Administration  
Hoerbiger  
Motorola  
Siemens  
U.S. Military

**CONTACT:** [mdabbas@broward.edu](mailto:mdabbas@broward.edu), 954.201.2324



"The biomedical engineering program here is great! Not only do the instructors have field experience, but the internship helps you get hands-on exposure in a growing field." Michael Harris, Broward College student



cf.edu

## AUTOMATING THE FUTURE

### OUR PROGRAM

Situated among the rolling hills of Ocala, the College of Central Florida (CF) offers an ET program that poises students for careers in the medical and manufacturing industries. Along with the AS degree in ET quality specialization, CF is adding the advanced manufacturing specialization with a focus on automation. Students may pursue several industry certifications—CPT, OSHA safety and health general industry specialist, and lean manufacturing bronze—or work toward automation and robotics, lean six sigma green belt, ET support specialist, and CNC machining college credit certificates.

“This program is an excellent opportunity for students interested in starting, or looking for new career growth in the field of manufacturing,” said Brian O’Conner, site director at Lockheed Martin’s Ocala plant. “Graduates of the program will be highly employable by local manufacturing companies who are always competing for the most qualified people.”

### PARTNER COMPANIES

Closet Maid  
 Conimar Corporation  
 Lockheed Martin  
 London Engineering  
 SPX

**CONTACT:** fantec@cf.edu, 352.873.5800

“There are many jobs in advanced manufacturing for those with education, training and good work ethics.” Dan Conroy, NEXEN GROUP



# ADVANCING MANUFACTURING

## OUR PROGRAM

Building on the excellence of Brevard Community College, Eastern Florida State College (EFSC) offers the AS degree in ET with electronics, advanced technology and alternative energy specialization options. Additionally, EFSC students may earn four college credit certificates: applied technology specialist, alternative energy systems specialist, composite fabrication and testing, and engineering technology support specialist.

Located at EFSC's Palm Bay and Cocoa campuses, the ET degree program features four well-equipped labs for analog electronics, digital electronics, soldering and fiber optics, and composite materials and applied mechanics. The facilities also include four stand-alone trainers for solar water heating and photovoltaics. As supplements to theory instruction and computer simulation in the classroom, these labs and trainers enable students to learn hands-on skills that meet the needs of area employers.

The program prepares students for high-tech jobs in all electronic fields such as semiconductor manufacturing, biomedical equipment repair, cellular telephone system repair, assembly line supervising, soldering technology, and alternative energy.

"An education is the best tool in a technician's toolbox. The CPT and ET degree are impressive credentials when applying for a manufacturing job." Michael Ennis, Harris



**Eastern Florida**  
**STATE COLLEGE**  
*Explore. Achieve. Succeed.*

[easternflorida.edu](http://easternflorida.edu)

## PARTNER COMPANIES

Florida Power & Light  
Harris  
Knights Armament  
Quality Electronics Manufacturing  
Rockwell Collins

**CONTACT:** [et@easternflorida.edu](mailto:et@easternflorida.edu), 321.433.7742





fgc.edu

LAKE CITY, FLORIDA

FLORIDA GATEWAY COLLEGE

## PUTTING THE FUTURE IN MOTION

### OUR PROGRAM

At Florida Gateway College (FGC), the AS degree in ET, with an advanced manufacturing specialization, prepares students to design, build, and program the complex electro-mechanical monitoring and control systems central to automated manufacturing throughout the world. For those with strong interests in both mechanical devices and electronics, these careers may offer excellent opportunities, including high wages and educational advancement.

Through project-based learning, FGC's program provides students experience with programmable logic controllers (PLCs), industrial sensors and transducers, process equipment such as pumps and automatic valves, motors and motor control systems, and hydraulic and pneumatic equipment. In addition, courses address management concepts such as quality, safety, and productivity systems and techniques—essential for supervisory personnel in modern manufacturing facilities.

Students may pursue industry certifications such as the CPT from the MSSC, the industrial hydraulic technician from the International Fluid Power Society, and the certified control system technician from the International Society for Automation.

### PARTNER COMPANIES

Blue Linx  
Hunter Panels  
PotashCorp - White Springs  
Suwannee Lumber Co.

**CONTACT:** Margaret.Lee@fgc.edu, 386.754.4228

"We recently hired an FGC graduate and former intern as a control specialist. He came to us extremely well-prepared and has exceeded our expectations."

David Moore, superintendent E&I, maintenance and reliability,  
PotashCorp - White Springs



## STRENGTH OF PARTNERSHIPS

### OUR PROGRAM

At the northeastern corner of the state, Florida State College at Jacksonville (FSCJ) is ready to meet the demand of the area's established and growing manufacturing culture. The ET program at FSCJ specializes in computer-controlled systems for manufacturing applications. Training includes electronics, industrial components, computer control software and hardware applications, industrial control circuits, PLCs, CNC, and hydraulics and pneumatics. Students also receive targeted instruction in automated manufacturing systems, preparing them for work in the manufacturing, food, chemical, paper pulp, machine tool, and pharmaceutical industries.

As part of this program, FSCJ offers college credit certificates in advanced manufacturing (automation); CNC machining; engineering technology (support specialist); and pneumatics, mechatronics, hydraulics, and motors for manufacturing.



[fscj.edu](http://fscj.edu)

Industry certifications include the OSHA 30-hour safety, MSSC CPT, International Fluid Power Society (IFPS), National Institute of Metalworking Skills (NIMS), Certified Solid Works Associate (CSWA) Master Cam, and Society of Manufacturing Engineers (SME) Certified Manufacturing Technologist.

### PARTNER COMPANIES

Medtronic Xomed, Inc.  
Saft Battery  
Swisher  
Vistakon  
Walter Lorenze

**CONTACT:** [net@fscj.edu](mailto:net@fscj.edu), 904.598.5676



"We have the faculty and staff to train our students for the local and national manufacturing job market in electrical, mechanical, fluid power, PLCs, robotics and machine tools." Darrell High, lab manager



## CAREERS BY DESIGN

### OUR PROGRAM

Serving Florida's Panhandle area, Pensacola State College offers an AS degree in ET with a mechanical design and fabrication specialty, preparing students for careers in CNC machining, mechanical design and metal fabrication. Through a variety of instruction, software training and experiential learning on industry equipment, students in this program gain proficiency in skills that are in high demand in the local and regional advanced manufacturing industry.

Courses prepare Pensacola State ET students in areas such as computer-aided design and manufacturing, computerized machining, production welding and metal fabrication, computerized woodworking, and graphic art using plastics and composite materials—as well as for the MSSC CPT and MasterCAM certifications. They train on high-tech equipment such as a Haas VF-2 and TM-2P CNC mill, Haas ST-10 and TL-1 CNC lathe, CNC plasma cutting, and CNC gantry table router.

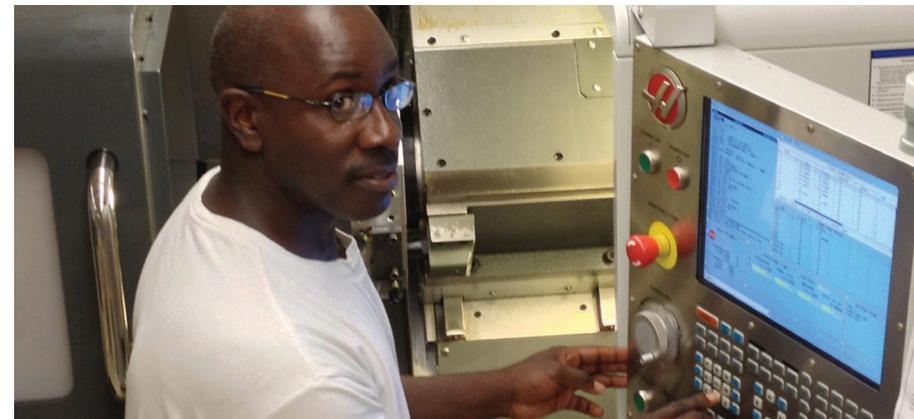
Pensacola State's program offers college credit certificates in CNC machinist (operations and fabrication), computerized woodworking, and mechanical designing and programming. Co-ops with local manufacturers help students acquire practical work experience that makes them even more marketable.

"Pensacola State's ET program has allowed us to hire individuals with strong knowledge and foundational skills in machining and manufacturing." Barry Fulford, president, Production Metal Stampings

### PARTNER COMPANIES

Avalex Technologies  
 CRC Manufacturing Inc.  
 Mercury Machining Co. Inc.  
 Performance Machining Services  
 Vertech Inc.

**CONTACT:** [mcannon@pensacola.edu](mailto:mcannon@pensacola.edu), 850.484.2524



## ADVANCING TECHNOLOGY



polk.edu

### OUR PROGRAM

Serving the globally competitive manufacturing environment of central Florida, the ET program at Polk State College prepares students for opportunities with leading-edge companies. The AS degree in ET offers a specialization in advanced manufacturing that focuses primarily on applying, analyzing, implementing, and improving existing technologies.

Beginning with the fundamentals of production processes, quality assurance and safety, this program arms students with the knowledge and tools they need to succeed. Students build technical and management skills with in-depth study of automation and instrumentation (including PLC basics), metrology, process improvements, and quality work practices utilizing Lean and Six Sigma principles. Polk State offers the following manufacturing industry certifications: MSSC CPT, ASQ CQIA, SME/ASQ/AME/Shingo Lean Bronze, ISA CCST, ETA CETa, and autodesk certified professional.

Polk County companies manufacture a broad range of products, including foods, chemicals, paper, and building materials. Graduates of Polk State's respected ET program are poised to join the area's vibrant skilled workforce.

### PARTNER COMPANIES

Coca-Cola North America  
Florida's Natural Growers  
Pepperidge Farm  
QMI/ITW  
Quality Aerospace Coatings/JCMI

**CONTACT:** [eroe@polk.edu](mailto:eroe@polk.edu), 863.669.2838



"The CPT national certification gives us confidence that a prospective employee has the foundational skill set necessary to function as an effective member of our team."

Carl Kelly, chilled unit manager, Florida's Natural Growers



scf.edu

BRADENTON, FLORIDA

STATE COLLEGE OF FLORIDA

## AT THE CUTTING EDGE

### OUR PROGRAM

Serving southwest Florida's Gulf coast, State College of Florida (SCF) offers an AS degree in ET that prepares students for employment as production technicians and related occupations. The program is housed on the Venice Campus and serves the Sarasota-Bradenton area—home to more than 600 small- to large-scale manufacturers.

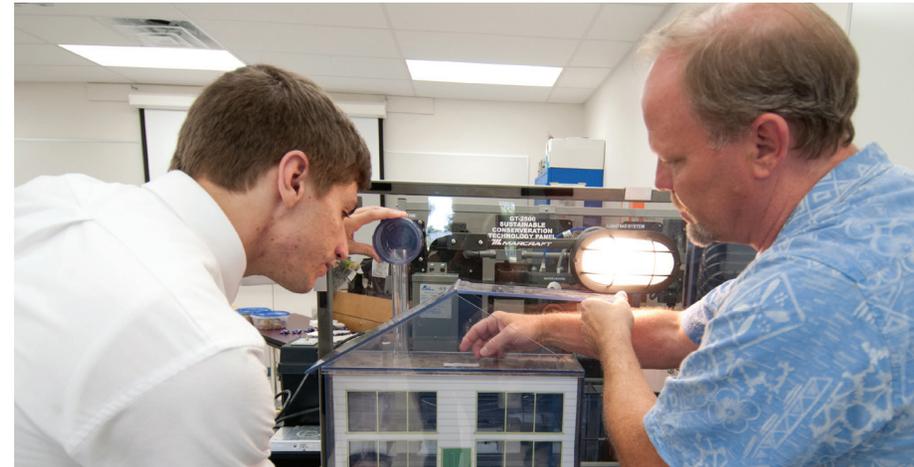
ET students at SCF may work toward four college credit certificates: engineering support specialist, alternative energy, electronics, and digital design and modeling. SCF also offers industry certifications in MSSC CPT, SolidWorks CSWA Associate, RESNET Certified Rater, LEED Green Associate, and ASQ.

SCF's program provides updated training for incumbent workers employed as production technicians in manufacturing, electronics, industrial design, biomedical, alternative energy and similar industries. Through the program's electives, students can take additional courses in computer-aided design, PLCs, sustainability, and civil engineering technology.

### PARTNER COMPANIES

MedOne Surgical, Inc.  
Octex  
PGT Windows  
Tervis Tumbler  
Tropicana

**CONTACT:** [gouldca@scf.edu](mailto:gouldca@scf.edu), 941.752.5218



"We pride ourselves in cutting-edge educational delivery, and are always trying new techniques and updating courses so our students' skills remain relevant to the local workforce."

Adrienne Gould-Choquette, SCF professor, 2012-2013 Engineering Technology Educator of the Year

## AN INDUSTRY MODEL

### OUR PROGRAM

Situated on Florida's west coast, St. Petersburg College (SPC) serves as a leader in the development of the state's revolutionary AS degree in ET. Recognized as a national model, SPC's ET program helps students develop hands-on technical skills coupled with scientific and engineering principles.

SPC offers four of the ET degree specializations—electronics, quality, digital design and modeling, and biomedical systems—built on the common ET technical core. Certificate options include: computer-aided design and drafting, engineering technology support, lean six sigma green belt, medical quality systems, rapid prototyping and design, and six sigma black belt.

SPC opened the area's first Collaborative Center for Emerging Technologies, featuring four state-of-the-art work cells designed to simulate an advanced manufacturing factory work environment. The Center includes the latest equipment in rapid prototyping, quality measurement and electronic instrumentation—as well as CNC equipment and 3-D printers. These outstanding facilities provide ET students at SPC with robust opportunities to expand their skill sets and prepare for successful careers.

### PARTNER COMPANIES

Bovie Medical  
ConMed Linvatec  
Draper Laboratories  
Honeywell  
PharmaWorks

**CONTACT:** [jenkins@spcollege.edu](mailto:jenkins@spcollege.edu), 727.341.4378



"The engineering technology degree gives incumbent workers an opportunity to upgrade their skills and directly apply them in the workforce." Brad Jenkins, associate dean of ET, St. Petersburg College



[tcc.fl.edu](http://tcc.fl.edu)

TALLAHASSEE, FLORIDA

TALLAHASSEE COMMUNITY COLLEGE

## A MANUFACTURING CAPITAL

### OUR PROGRAM

Located in Florida's capital city, Tallahassee Community College (TCC) offers an AS degree in ET with a concentration in advanced manufacturing. The core courses of the degree include those required for the engineering technologies support specialist certificate, which aligns with the MSSC CPT outcomes. Students may also work toward the pneumatics, hydraulics and motors for manufacturing certificate.

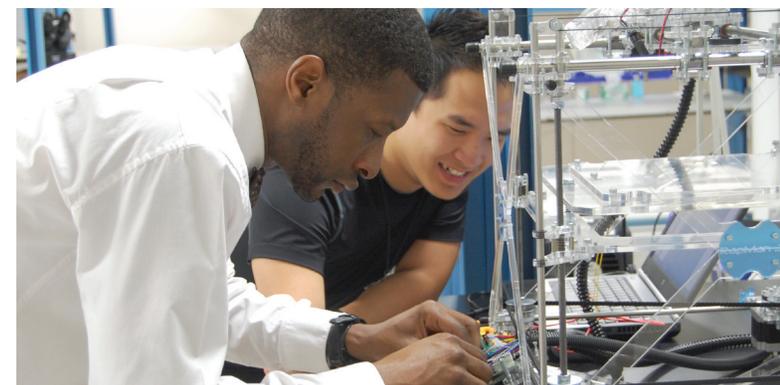
Most of the ET degree courses take place at TCC's Advanced Manufacturing Training Center, an innovative facility intended to provide workforce training for students; enhance the economic competitiveness of manufacturers through education, training and development; and offer solutions to meet area manufacturing needs. TCC works closely with high school partners to grow a sustainable dual enrollment and manufacturing program, helping to expand the region's manufacturing workforce.

Graduates of TCC's ET program find themselves well-qualified to build or continue careers in advanced manufacturing.

### PARTNER COMPANIES

BASF  
Danfoss Turbocor  
GT Technologies  
St. Marks Powder  
Teligent EMS

**CONTACT:** [tpp@tcc.fl.edu](mailto:tpp@tcc.fl.edu) and [amtc@tcc.fl.edu](mailto:amtc@tcc.fl.edu)  
850.201.8352 and 850.201.9720



"The Center is a great learning environment filled with a wonderful, friendly staff. I am working toward a certification that will improve my chances of a job within this field."

Yu Lui, production technician student

## A CENTER FOR INNOVATION

### OUR PROGRAM

In the research-rich area of the Florida Panhandle, Gulf Coast State College (GCSC) delivers a prime location for an ET program in its state-of-the-art Advanced Technology Center, a hub for innovation, design and entrepreneurship. The AS degree in ET includes the common core and four specializations: alternative energy, automation and advanced manufacturing, electronics, and digital manufacturing. Courses weave a combination of theory and laboratory activities to gain cognitive and manipulative skills supporting engineering design, processes, production, testing and quality.

Certificate options include alternative energy systems specialist; automation; CNC machinist; digital manufacturing specialist; electronics aide; ET support specialist; pneumatics, hydraulics and motors for manufacturing; and rapid prototyping specialist. GCSC students may also pursue the following industry certifications: MSSC CPT, Autocad, Inventor, SolidWorks, LabVIEW and Hand-held Meter.



[gulfcoast.edu](http://gulfcoast.edu)

### PARTNER COMPANIES

Haas  
Merrick Industries  
Rockwell Automation  
Snap-On  
Tektronix

**CONTACT:** [ahanson@gulfcoast.edu](mailto:ahanson@gulfcoast.edu) or  
[aadessi@gulfcoast.edu](mailto:aadessi@gulfcoast.edu), 850.769.1551



"Our programs lead to direct employability." GCSC faculty member



## EXPANDING OPPORTUNITIES

[nwfsc.edu](http://nwfsc.edu)

### OUR PROGRAM

The AS degree in ET at Northwest Florida State College (NWFS) provides a secure path for successful careers in manufacturing, electronics, aerospace and other local industries. The main NWFS campus in Niceville serves a growing urban community along the north Gulf coast between Panama City and Pensacola as well as many military facilities and companies supporting them. Along with the common core, NWFS's ET students may choose from four specializations: advanced technology, digital design and modeling, digital manufacturing, and mechanical design and fabrication. College credit certificate offerings include the MSSC CPT, CNC machinist, design and drafting, digital manufacturing specialist, support specialist, and rapid prototyping specialist.

The college and community are investing in expanded campus facilities and equipment to support new welding, machining and design programs with labs for experiential learning.

### PARTNER COMPANIES

Fort Walton Beach Machining  
 Gulf Power  
 Keltec Crane Aerospace  
 L3 Communications Crestview Aerospace  
 NC Manufacturing

**CONTACT:** [rickmanr@nwfsc.edu](mailto:rickmanr@nwfsc.edu), 850.729.5218



"We learn how to use tools and equipment of the trade, and apply them on a real job site."  
 Austin Berry, NWFS welding student

# INTRODUCING NEW ET PROGRAMS

Since its inception in 2008, Florida's ET programs continue to grow at a rapid pace throughout the state. As more colleges adopt the program and word of its success spreads, enrollment will continue to rise. Graduates will find expanding high-skill, high-wage career opportunities and employers will discover a well-trained workforce ready and willing to support their growth.

The following colleges are working to implement ET degree programs into their workforce education offerings. We look forward to having them as partners in our ET community.

## PASCO-HERNANDO COMMUNITY COLLEGE

NEW PORT RICHEY, FLORIDA

[phcc.edu](http://phcc.edu)

## SEMINOLE STATE COLLEGE OF FLORIDA

SANFORD, FLORIDA

[seminolestate.edu](http://seminolestate.edu)

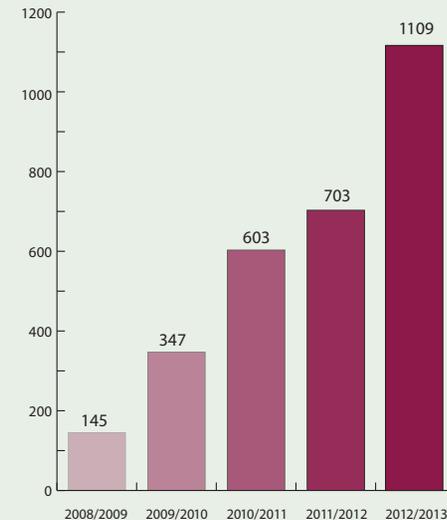
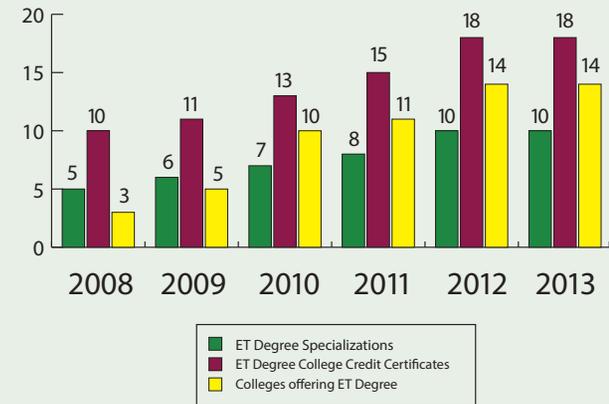
## SANTE FE COLLEGE

GAINESVILLE, FLORIDA

[sfcollege.edu](http://sfcollege.edu)

For more information on how you can introduce the AS degree in ET to your campus, contact FLATE at 813.259.6578 or visit [fl-ate.org](http://fl-ate.org).

KEY MILESTONES 2008-2013



ENROLLMENT



## REACHING THE NEXT LEVEL



**DAYTONA  
STATE COLLEGE**

### **DAYTONA STATE COLLEGE**

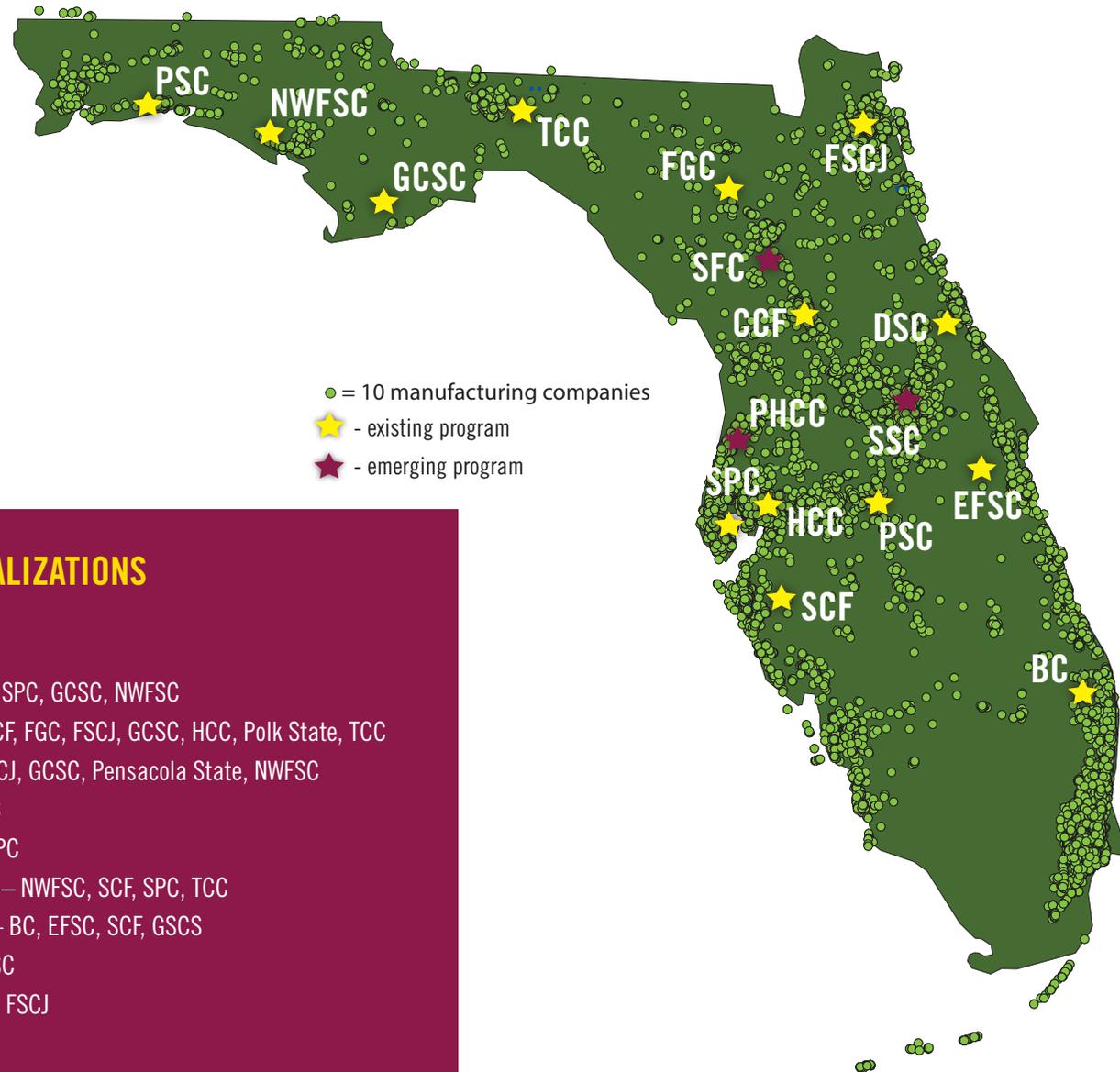
DAYTONA BEACH, FLORIDA

[daytonastate.edu](http://daytonastate.edu)

After earning an AS degree in ET, students may go on to pursue a B.A.S. degree offered at one of many Florida colleges and universities—or transfer to the B.S. degree in ET program at Daytona State College. In the bachelor's degree program, ET students learn to analyze, apply, implement and improve existing technologies as they prepare to engage in product improvement, manufacturing and engineering operational functions at a higher level.

B.S. degree in ET graduates are prepared to effectively work as part of an engineering team, translating theoretical designs into actual products in professions such as systems engineer, process analyst, technical sales engineer, network supervisor, project engineer, calibration engineer, or programmer.

# ET DEGREE PROGRAM COLLEGE LOCATIONS



## COLLEGE ET SPECIALIZATIONS

Quality – CF, SPC

Electronics – BC, EFSC, SCF, SPC, GCSC, NWFS

Advanced Manufacturing – CF, FGC, FSCJ, GCSC, HCC, Polk State, TCC

Fabrication and Design – FSCJ, GCSC, Pensacola State, NWFS

Advanced Technology – EFSC

Biomedical Systems – BC, SPC

Digital Design and Modeling – NWFS, SCF, SPC, TCC

Alternative Energy Systems – BC, EFSC, SCF, GCSC

Digital Manufacturing – GCSC

Industrial Energy Efficiency - FSCJ



## HIGH-TECH PATHWAYS TO THE FUTURE

Whether working toward an associate degree, certificate, industry credential, bachelor's degree or master's degree, ET students will find expanding program and specialization options throughout the booming state of Florida. As global companies continue to identify our state as a manufacturing-friendly region, the need for successful ET programs will continue to increase. With support from the NSF, FLATE is positioned to help sustain the growth of high-tech, high-wage career opportunities within Florida's advanced manufacturing environment.

*Pictured above:* FLATE's leadership team includes Brad Jenkins, associate dean of ET, St. Petersburg College; Dr. Richard Gilbert, professor of chemical and biomedical engineering, USF; and Dr. Marilyn Barger, executive director of FLATE.



[fl-ate.org](http://fl-ate.org)



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