



FLATE was established in 2004 through a National Science Foundation (NSF) Advanced Technological Education (ATE) Center grant and funded to date with \$10 million. FLATE is NSF's Florida Regional Center of Excellence and is one of 26 ATE Centers across the country focused on improving science, technology, engineering, and mathematics education to meet the technician workforce needs of American advanced technological industries. FLATE has been recognized both locally and nationally for its innovative best practices in curriculum, outreach, and professional development.

FLATE's impact on its educational, industry, and workforce partners is captured in a variety of metrics. FLATE data comes from stakeholder and participant surveys, Florida Dept. of Education databases, various web statistics, anecdotal comments, and other sources. These define our activity successes and impact as well as provide feedback for process improvements.

2004 - 2020 FLATE IMPACT

- Created an industry defined/endorsed Engineering Technology (ET) AS/AAS Degree programs approved by FLDOE since May 2007
 - ✓ Built 31 curriculum frameworks for 20 certificates and 11 specializations of the degree
 - ✓ Grew the ET AS degree program from 3 to 24 of the 28 Florida colleges since 2007.
 - ✓ Submitted three articulated high school frameworks to FLDOE, which is now offered to 510 schools
 - ✓ Since 2007, tracked ET AS degree student enrollment in Florida has grown from 9 To 2,027 students in 2018-19
 - ✓ Awarded over \$220,000 to ET degree awarding college partners for laboratory upgrades
- Developed statewide 15 credit-hour articulation agreement with MSSC-CPT for anyone
- Established a five-year partnership with FloridaMakes (Florida Manufacturing Extension Partnership)
- Provided language for Career Academy legislation and testified before the Florida House and Senate subcommittees
- Crafted the proposal for *Banner Center for Manufacturing* for related workforce training initiatives (2006-08, \$700,000)
- Awarded \$1.4 million in additional funding from NSF ATE for requested special projects
- Facilitated approximately 26 project awards from the National Science Foundation Center
- Leveraged by partners to obtain over \$80 million in state and local funding
- Partnered for 10 years as co-PIs with 3 USF PathTech targeted research grants for Engineering Technology pathways
- Provided 54,777.57 hours of professional development to 42,660 educators and 15,385 workforce, economic and manufacturing personnel in multi-day workshops, presentations, and through online webinars at hundreds of events in Florida, nationally, and worldwide.
- Received \$3,270,459 in-kind and \$459,490 cash towards FLATE's professional development and outreach activities.
- Impacted over 47,095 Florida students and educators reached by 1,432 Made in Florida (MIF) outreach campaign events
 - ✓ Introduced 29,480 students, 1,916 teachers, 1,080 parents and chaperons to 1,031 advanced manufacturing tour events in 50 Florida counties from 2013 to 2019.
 - ✓ Developed more than 47 MIF industry-sourced, integrated STEM middle and high school lesson plans
- Recognized 28 outstanding manufacturing educators and 14 industry champions in an annual awards program.
- Supported 1,712 middle and high school students in week-long summer STEM robotic camps since 2005
- Awarded at least 30 statewide recognitions since 2010 including Best Practice and Exemplary Practice Awards
- Published eleven FLATE Best Practices guides for educational curriculum, outreach and professional development.
- Tracked over 194,697 views of the FLATE Focus Newsletter in the U.S. and 171 countries since 2009. From 2019 to 2020, the newsletter was viewed 32,172 times with distribution to approximately 14,271 individuals in 2020. The FLATE Focus online newsletter is the winner of 2013 and 2014 APEX Awards for Publication Excellence
- Disseminated products, resources, and services publicly through madeinflorida.org, fl-ate.org, flate.pbworks.com, websites and blogs which have served over 316,350 visitors to FLATE online resources since 2009
- Established a model for industry-endorsed 2-year curriculum for A.S. degrees in Engineering Technologies
- Facilitated seamless articulations to Florida BSET and BAS degrees
- Participated in national advisory boards for CTE and STEM education including ATE Centers, the National Academy of Sciences, NAM, MSSC, NCPN, ACTE, and NCATC
- Awarded 1 of 8 NSF OISE pilot projects to support international education to community college students and faculty expanding partnership between Europe and United States of America.
- Took 9 Florida ET AS degree students and 8 faculty for 3-weeks a training in Renewable Energy in Spain with supplemental funding.