



**FLATE** was established in 2004 through a National Science Foundation (NSF) Advanced Technological Education (ATE) Center grant and funded through 2019 with over \$10 million. FLATE transitioned from NSF funding to become a part of the FloridaMakes Network (FloridaMakes is the NIST Manufacturing Extension Partnership (MEP) Center in Florida). FLATE is 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 - 2022 FLATE IMPACT

- Created an industry defined/endorsed Engineering Technology (ET) AS Degree program (and model) approved by FLDOE in 2007
  - Developed **32** 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 in 2007
  - Submitted three articulated high school frameworks to FLDOE, which is now offered to **510** schools
  - Tracked ET AS degree and related programs student enrollment which has grown from 9 to **1,976** students (2007-2021)
  - 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 enrolled in the ET Degree.
- Provided language for Career Academy legislation and testified before the Florida House and Senate subcommittees
- Awarded over **\$14 million** in additional funding from NSF ATE for requested special projects
- Partnered as co-PIs with 3 USF PathTech targeted research grants for Engineering Technology pathways.
- Provided **69,840** hours of professional development to **43,150** educators and **16,475** manufacturing workforce and other personnel through events in Florida, nationally, and worldwide
- Impacted over **77,605** Florida students and educators through **1,465** Made in Florida outreach campaign events since 2005.
  - Introduced **31,740** students, **2,108** teachers, **1,546** parents, and chaperones to **1,099** advanced manufacturing tour and outreach events in **50** Florida counties from 2013 to 2021
  - Developed more than **47** Made in Florida industry-sourced, integrated STEM middle, and high school lesson plans
- Recognized **30** outstanding manufacturing educators and **17** industry supporters through the FLATE annual awards program
- Supported **1,712** middle and high school students in week-long summer STEM robotic camps since 2005
- Published eleven FLATE Best Practices guides for educational curriculum, outreach, and professional development
- Distributed the FLATE Focus Newsletter to stakeholders in the U.S. and 171 countries since 2009. From 2019 to August 2022, the newsletter was distributed to **59,354** individuals
- Disseminated over **441** online resources supporting STEM education focused on technology and engineering through [MadeinFlorida.org](http://MadeinFlorida.org), [Flate.org](http://Flate.org), [Flate.pbworks.com](http://Flate.pbworks.com) websites, and the FLATE Focus blog.
- 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