

Matching Training to Industry Needs: FLATE-FESC Grant Accomplishments 2008-2015

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- In 2008, FLATE (Florida Advanced Technological Education Center) [(NSF) Advanced Technological Education Center of Excellence for Florida)]
- Partnered with FESC to prepare and execute a technician workforce plan to put that energy workforce into place on time.

Florida's award-winning A.S. Engineering Technology degree program was designed:

- to accommodate emerging/changing technologies quickly without having to add full 2-year degree programs.



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Florida Engineering Technology AS Degree

I. General Education – 15 - 18 credit hours

English

Science

Math

Social Science

Humanities

II. ET Core - 18 credit hours

Computer Aided Design

Manufacturing Processes & Materials

Mechanics & Instrumentation

Electronics

Quality

Safety



III. 10 Specialization Tracks: 24 - 27 credit hours

Advanced Manufacturing

Biomedical Systems

Digital Manufacturing

Advanced Technology

Electronics

Mechanical Design & Fabrication

Digital Design & Modeling



* **Alternative Energy Systems**

* **Industrial Energy Efficiency**

60 semester hours

***Also offered as College Credit Certificates**

Alternative Energy Systems Specialist (CCC)

18 (Primary) or 15 (Secondary) Credits

Industrial Energy Efficiency Specialist (CCC)

21 (Primary) or 24 (Secondary) Credits

Florida Colleges Energy Education Forum



3 years:	2011 (19 attendees)	2013 (40 attendees)	2014 (39 attendees)
Location	Santa Fe College - Center for Innovation & Economic Development, Gainesville	Florida Solar Energy Center (FSEC), Cocoa	Palm Beach State College – Institute for Energy & Environmental Sustainability
Professional Development Activity	Hands-on demonstration of tools used for both residential and industrial/commercial energy efficiency occupations (and training).	Solar panel activity, Florida Solar Energy Center Tour	Power analytics lab activity

- Cloned from the existing, successful Engineering Technology Forum model.
- Goal is to bring educators and industry people from all over Florida together to learn and share ideas and knowledge about energy education and energy industry workforce needs.



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Job Task Analysis (JTA) Smart Grid Technician



- Job Task Analysis Workshop for the Smart Grid Technician program in Florida (4/23-24) - a rapidly emerging occupation.
- Workshop was coordinated by FLATE, facilitated by the [Advanced Technology Environmental and Energy Center \(ATEEC\)](#) and hosted by Palm Beach State College.



- The workshop took place over two days with the **goal of gathering input on the real-world tasks and functions of the Smart Grid Technician job.**
- Participants: 12 smart grid content experts from the education and industry realms.
- The report generated will be published and available for download in June 2015.



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