

**Nationally recognized and  
award winning  
EAST LAKE HIGH SCHOOL  
ROBOTICS TEAM  
TEAM 79**

- Five-Time Recipient of the Regional Chairman's Award Winner (the most prestigious and coveted award)
- Winner of the 2007 National Championship Xerox Creativity Award
- Recipient of the 2007 Johnson & Johnson Sportsmanship Award

FIRST Robotics is a multi-national competition created to provide high school students with an applied approach toward learning engineering through competitive robot design and construction. Consisting of more than 1,600 teams from the United States, South America, Europe and Asia, FIRST Robotics combines the spirit of learning and friendly competition with the catch phrase of "gracious professionalism." Career Technical Education Foundation Inc is a not-for-profit 501 (c)(3) educational corporation driving a collaborative effort between schools and business to encourage educational and career opportunities. In addition, it runs summer workshops for children of elementary, middle and high school age. ALL of the money generated from tuition for the summer workshops after expenses (salaries, expenses, travel, incidentals, etc.) is donated to the East Lake Academy of Engineering and the East Lake Robotics Team.

For more information, visit  
[www.roboticsboosters.com](http://www.roboticsboosters.com)

**EAST LAKE HIGH SCHOOL  
ACADEMY OF ENGINEERING**

1300 Silver Eagle Drive  
Tarpon Springs, FL 34688  
(727) 942-5419  
[www.eastlake-hs.pinellas.k12.fl.us](http://www.eastlake-hs.pinellas.k12.fl.us)

**Special thanks to**

Pinellas Education Foundation  
Honeywell  
University of South Florida  
AdvanTec Design & Development  
Solutions, Inc.  
Career Technical Education  
Foundation, Inc.  
First Step Robotics, Inc.  
Project Lead The Way  
Rochester Institute of Technology



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[www.pcsb.org](http://www.pcsb.org)

**Academy of Engineering**

East Lake High School



**SCIENCE, TECHNOLOGY, ENGINEERING & ROBOTICS**

**CAREER ACADEMY**

**CENTER OF EXCELLENCE**

*Certifying A Future.*

**ESTABLISHED SEPTEMBER, 2008**



# program of study

## THE CHALLENGE

There are currently 1,300,000 engineering and engineering technology jobs available in the U.S. without trained people to fill them.

## OUR ACADEMY OF ENGINEERING

- Strengthens the core curriculum (English, science, social studies, math).
- Offers a four-year pre-engineering, technical career-based and college preparatory program.
- Creates a dynamic partnership between the local community, industry and East Lake High School.

## GRADUATION EXPECTATIONS

- Understand technology as a tool for problem solving.
- Understand the scientific process, engineering problem solving and the application of technology.
- Preparation for the rigors of college-level engineering programs and technical careers.
- Understanding of technological systems as they interface with other systems.
- Use of the principles of mathematics in their application to problem solving.
- Communicate effectively using reading, writing, listening and speaking skills.
- Demonstrate the ability to be creative, which leads to innovation because innovation drives our economy.



## EAST LAKE HIGH SCHOOL COURSE OFFERING INCLUDES:

- Introduction to Engineering Design
- Digital Electronics
- Principles of Engineering
- Computer Integrated Manufacturing
- Civil Engineering and Architecture
- Engineering Design and Development
- Biotechnical Engineering
- Project Lead the Way curriculum offers college credit through Rochester Institute of Technology

## PINELLAS COUNTY COMMUNITY BENEFITS

- Well-educated graduates of high school who are prepared for postsecondary education and technical work.
- An opportunity to work with and influence the local educational system through community and industry partnerships.
- Introduces students to engineering, which is part of everything around us. The work of engineers and engineering technologies is vital, stimulating, profitable, creative and abundant.
- Provides strong math and science skills plus the ability to read and write well, to think and reason, and to explain complex concepts for our children who express an interest in entering the world of technology.
- Provides relevance to learning through the application of academic classes.
- Reverses the decline in classes that allow students to apply their understanding of science, math and technology.

For more information, contact Carmela Haley at [haleycc@pcsb.org](mailto:haleycc@pcsb.org) or call (727) 942-5419.

Note: Course program qualifies for Florida Bright Futures including Gold Seal Vocational Scholars Award. See guidance department for details.