

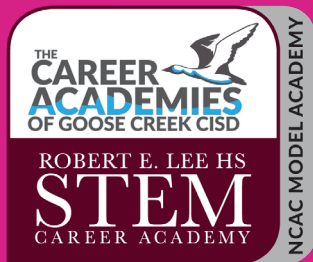
Energy Career Cluster

The Energy Career Cluster prepares individuals for careers in the designing, planning, maintaining, generating, transmission, and distribution of traditional and alternative energy.



Program of Study Options by Campus	GCM	REL	RSS	SCTHS
Instrumentation Technology	--	AC/DC	--	--

AC—Courses available to academy students only; application process required in 8th grade; DC—College courses offered on campus; application process required before beginning college classes additional college fees may apply; LC—Upper-level course must be taken at a Lee College campus; application process required before beginning college classes.



Science, Technology, Engineering and Mathematics Academy

Instrumentation Technology

048-STEM-Refining and Chemical Processes @ REL



The Refining and Chemical Processes program of study helps CTE learners discover how to monitor, adjust, and control different equipment housed in petrochemical plants and refineries. It introduces students to the computer technology and instrumentation used to operate a variety of equipment systems and industrial processes, helping students build the skills needed to operate these systems.

Secondary Courses for High School Credit

Level 1

- **H09878** Introduction to Engineering Design (PLTW)

Level 2

- Dual Credit Instrumentation Classes with Lee College

Level 3

- Dual Credit Instrumentation Classes with Lee College

Level 4

- Dual Credit Instrumentation Classes with Lee College

Postsecondary Opportunities

Associates Degrees

- Process Technology
- Process Operating Technology
- Logistics, Material, and Supply Chain Management
- Petroleum Technology/ Technician

Bachelor's Degrees

- Business Administration and Management, General
- Business/Commerce, General
- Industrial Engineering
- Petroleum Engineering

Master's, Doctoral, and Professional Degrees

- Business Administration and Management, General
- Business/Commerce, General
- Industrial Engineering
- Petroleum Engineering

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Tour a power plant or refinery

Work-Based Learning Activities

- Attend student summer conferences



Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Gas Plant Operators	\$62,650	312	9%
Petroleum Pump System Operators, Refinery Operators, and Gaugers	\$71,488	1,181	9%
Power Plant Operators	\$71,635	309	9%

Successful completion of the Refining and Chemical Processes program of study will fulfill requirements of the Business and Industry endorsement.