



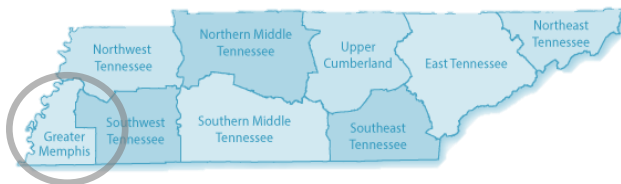
Science, Technology, Engineering and Mathematics



Regional Career Opportunities – Listed by Highest Projected Demand



Job Zone 1 High School Diploma or Less	Job Zone 2 High School Diploma	Job Zone 3 Certificate or Associate's Degree	Job Zone 4 Bachelor's Degree	Job Zone 5 Master's or Doctorate Degree
Few regional occupations in this career cluster require education at this degree level.	Few regional occupations in this career cluster require education at this degree level.	Few regional occupations in this career cluster require education at this degree level.	Industrial Engineers Annual Openings = 80 Median Wage = \$76,134 ★	Architectural & Engineering Managers Annual Openings = 45 Median Wage = \$122,089
			Mechanical Engineers Annual Openings = 35 Median Wage = \$79,645 ★	Biological Scientists, All Other Annual Openings = 10 Median Wage = \$85,594
			Engineers, All Other Annual Openings = 30 Median Wage = \$75,333 ★	Microbiologists Annual Openings = 5 Median Wage = \$89,534
			Chemists Annual Openings = 25 Median Wage = \$61,104 ★	Statisticians Annual Openings = 5 Median Wage = \$80,282
			Electrical Engineers Annual Openings = 20 Median Wage = \$92,534 ★	<i>Few regional occupations in this career cluster require education at this degree level.</i>



★ Top five high-value occupations in this cluster for the **Greater Memphis Region**

Occupations with the highest annual openings that are stable or growing with median wages above \$35,000 are considered high-value.

* = state data was used due to limitations in regional data.
 ** = national data was used due to limitations in regional and state data.





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Regional High School Requirements and Programs

English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Elective Focus
English I	Algebra I	Biology	World History and Geography	Foreign Language I	Lifetime Wellness	Fine Arts Selection	Minimum of Three Courses <i>See STEM career programs below.</i>
English II	Geometry	Chemistry	U.S. History	Foreign Language II	Strength and Exercise	-----	
English III	Algebra II	Physics	Economics and Government	-----	-----	-----	
English IV	4 th Math Course	-----	-----	-----	-----	-----	

Year	Advanced STEM Applications	Additional Electives	Regional Postsecondary Schools	
9	STEM I / Student Success	<input type="checkbox"/> _____ <input type="checkbox"/> _____	Certificates and Associate's Degrees	Bachelor's and Advanced Degrees
10	STEM II / Career Success (LDC)	<input type="checkbox"/> _____ <input type="checkbox"/> _____	Community Colleges <ul style="list-style-type: none"> Southwest Tennessee Community College Tennessee College of Applied Technology 	Colleges and Universities <ul style="list-style-type: none"> University of Memphis University of Tennessee <ul style="list-style-type: none"> - Heath Sciences Center - College of Medicine Rhodes College Christian Brothers University Le Moyne-Owen College
11	STEM III Honors	<input type="checkbox"/> _____ <input type="checkbox"/> _____		
12	STEM IV Honors	<input type="checkbox"/> _____		

Postsecondary Programs / Majors for Occupations in this Career Cluster

Certificate or AA	***	***	***	***	***
Bachelor's Degree	Industrial Engineering	Mechanical Engineering	Engineering	Chemistry	Electrical Engineering
Advanced Degree	Engineering Science	Biological Sciences	Microbiology	Mathematics & Statistics	***