



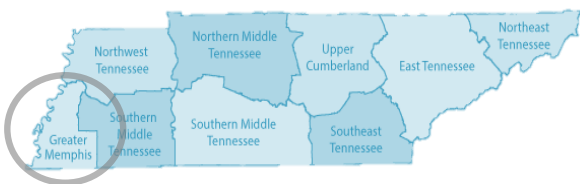
# Science, Technology, Engineering and Mathematics



Regional Career Opportunities – Listed by Highest Projected Demand



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.	<b>Industrial Engineers</b> Annual Openings = 80 Median Wage = \$75,999 <div>★</div>	<b>Microbiologists</b> Annual Openings = 5 Median Wage = \$98,782
			<b>Mechanical Engineers</b> Annual Openings = 35 Median Wage = \$80,491 <div>★</div>	<b>Physicists</b> Annual Openings = no data Median Wage = \$126,500*
			<b>Engineers, All Other</b> Annual Openings = 30 Median Wage = \$80,100 <div>★</div>	<b>Anthropologists &amp; Archeologists</b> Annual Openings = no data Median Wage = \$56,110*
			<b>Chemists</b> Annual Openings = 25 Median Wage = \$63,290 <div>★</div>	<b>Economists</b> Annual Openings = no data Median Wage = \$73,400*
			<b>Electrical Engineers</b> Annual Openings = 20 Median Wage = \$93,319 <div>★</div>	Few regional occupations in this career cluster require education at this degree level.

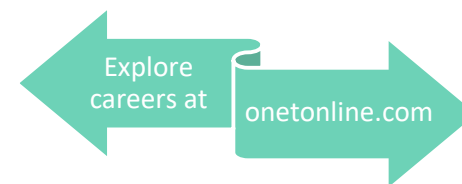


Top five high-value occupations in this career cluster for the

**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 level data was used due to limitations in regional data.



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# Science, Technology, Engineering and Mathematics



## 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>Required: Freshman Mentoring Seminar</i>  <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 <sup>th</sup> Math Course	-----	-----	-----	-----	-----	

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

## Postsecondary Programs/Majors for Occupations in this Career Cluster

Certificate or AA	TBD	TBD	TBD	TBD	TBD
Bachelor's Degree	TBD	TBD	TBD	TBD	TBD
Advanced Degree	TBD	TBD	TBD	TBD	TBD

