

















# Career Clusters and Pathways

Career Cluster	Career Pathway	Career Cluster	Career Pathway	Career Cluster	Career Pathway
 <b>Agriculture, Food &amp; Natural Resources</b>	<ul style="list-style-type: none"> <li>• Agribusiness Systems</li> <li>• Animal Systems</li> <li>• Environmental Service Systems</li> <li>• Food Products &amp; Processing Systems</li> <li>• Natural Resources Systems</li> <li>• Plant Systems</li> <li>• Power, Structural &amp; Technical Systems</li> </ul>	 <b>Government &amp; Public Administration</b>	<ul style="list-style-type: none"> <li>• Foreign Service</li> <li>• Governance</li> <li>• National Security</li> <li>• Planning</li> <li>• Public Management &amp; Administration</li> <li>• Regulation</li> <li>• Revenue &amp; Taxation</li> </ul>	 <b>Law, Public Safety, Corrections &amp; Security</b>	<ul style="list-style-type: none"> <li>• Correction Services</li> <li>• Emergency &amp; Fire Management Services</li> <li>• Law Enforcement Services</li> <li>• Legal Services</li> <li>• Security &amp; Protective Services</li> </ul>
 <b>Architecture &amp; Construction</b>	<ul style="list-style-type: none"> <li>• Construction</li> <li>• Design/Pre-Construction</li> <li>• Maintenance/Operations</li> </ul>	 <b>Health Science</b>	<ul style="list-style-type: none"> <li>• Biotechnology Research &amp; Development</li> <li>• Diagnostic Services</li> <li>• Health Informatics</li> <li>• Support Services</li> <li>• Therapeutic Services</li> </ul>	 <b>Manufacturing</b>	<ul style="list-style-type: none"> <li>• Health, Safety &amp; Environmental Assurance</li> <li>• Logistics &amp; Inventory Control</li> <li>• Maintenance, Installation &amp; Repair</li> <li>• Manufacturing Production Process Development</li> <li>• Production</li> <li>• Quality Assurance</li> </ul>
 <b>Arts, A/V Technology &amp; Communications</b>	<ul style="list-style-type: none"> <li>• A/V Technology &amp; Film</li> <li>• Journalism &amp; Broadcasting</li> <li>• Performing Arts</li> <li>• Printing Technology</li> <li>• Telecommunications</li> <li>• Visual Arts</li> </ul>	 <b>Hospitality &amp; Tourism</b>	<ul style="list-style-type: none"> <li>• Lodging</li> <li>• Recreation, Amusements &amp; Attractions</li> <li>• Restaurants &amp; Food/Beverage Services</li> <li>• Travel &amp; Tourism</li> </ul>	 <b>Marketing</b>	<ul style="list-style-type: none"> <li>• Marketing Communications</li> <li>• Marketing Management</li> <li>• Marketing Research</li> <li>• Merchandising</li> <li>• Professional Sales</li> </ul>
 <b>Business, Management &amp; Administration</b>	<ul style="list-style-type: none"> <li>• Administrative Support</li> <li>• Business Information Management</li> <li>• General Management</li> <li>• Human Resources Management</li> <li>• Operations Management</li> </ul>	 <b>Human Services</b>	<ul style="list-style-type: none"> <li>• Consumer Services</li> <li>• Counseling &amp; Mental Health Services</li> <li>• Early Childhood Development &amp; Services</li> <li>• Family &amp; Community Services</li> <li>• Personal Care Services</li> </ul>	 <b>Science, Technology, Engineering &amp; Mathematics</b>	<ul style="list-style-type: none"> <li>• Engineering &amp; Technology</li> <li>• Science &amp; Mathematics</li> </ul>
 <b>Education &amp; Training</b>	<ul style="list-style-type: none"> <li>• Administration &amp; Administrative Support</li> <li>• Professional Support Services</li> <li>• Teaching/Training</li> </ul>	 <b>Information Technology</b>	<ul style="list-style-type: none"> <li>• Information Support &amp; Services</li> <li>• Network Systems</li> <li>• Programming &amp; Software Development</li> <li>• Web &amp; Digital Communications</li> </ul>	 <b>Transportation, Distribution &amp; Logistics</b>	<ul style="list-style-type: none"> <li>• Facility &amp; Mobile Equipment Maintenance</li> <li>• Health, Safety &amp; Environmental Management</li> <li>• Logistics Planning &amp; Management Services</li> <li>• Sales &amp; Service</li> <li>• Transportation Operations</li> <li>• Transportation Systems/Infrastructure Planning, Management &amp; Regulation</li> <li>• Warehousing &amp; Distribution Center Operations</li> </ul>
 <b>Finance</b>	<ul style="list-style-type: none"> <li>• Accounting</li> <li>• Banking Services</li> <li>• Business Finance</li> <li>• Insurance</li> <li>• Securities &amp; Investments</li> </ul>				



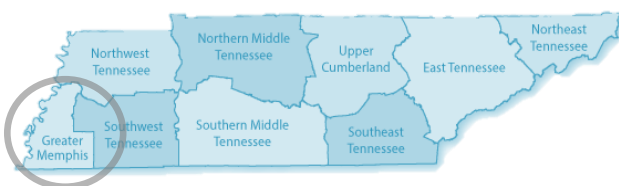
# Architecture and Construction



Regional Career Opportunities – Listed by Highest Projected Demand



<b>Landscaping &amp; Groundskeeping Workers</b> Annual Openings = 415 Median Wage = \$27,204	<b>Construction Laborers</b> Annual Openings = 510 Median Wage = \$31,846	<b>Electricians</b> Annual Openings = 250 Median Wage = \$51,503 ★	<b>Construction Managers</b> Annual Openings = 95 Median Wage = \$73,121	<i>Few regional occupations in this career cluster require education at this degree level.</i>
<b>Cement Masons &amp; Concrete Finishers</b> Annual Openings = 45 Median Wage = \$36,731	<b>Carpenters</b> Annual Openings = 160 Median Wage = \$40,304	<b>Plumbers, Pipefitters &amp; Steamfitters</b> Annual Openings = 210 Median Wage = \$55,682 ★	<b>Cost Estimators</b> Annual Openings = 60 Median Wage = \$60,053	
<b>Plasterers &amp; Stucco Masons</b> Annual Openings = 5 Median Wage = \$39,957	<b>Helpers – Pipelayers, Plumbers, Pipefitters &amp; Steamfitters</b> Annual Openings = 100 Median Wage = \$45,118 ★	<b>Heating, Air Conditioning &amp; Refrigeration Mechanics &amp;...</b> Annual Openings = 155 Median Wage = \$44,194 ★	<b>Civil Engineers</b> Annual Openings = 40 Median Wage = \$81,284	
<b>Septic Tank Servicers &amp; Sewer Pipe Cleaners</b> Annual Openings = 5 Median Wage = \$36,712	<b>Helpers – Electricians</b> Annual Openings = 80 Median Wage = \$31,069	<b>First-Line Supervisors of Construction Trades and...</b> Annual Openings = 155 Median Wage = \$58,927 ★	<b>Architects</b> Annual Openings = 20 Median Wage = \$73,474	
<i>Few regional occupations in this career cluster require education at this degree level.</i>	<b>Helpers – Installation, Maintenance &amp; Repair Workers</b> Annual Openings = 80 Median Wage = \$37,924	<b>First-Line Supervisors of Landscaping, Lawn Service...</b> Annual Openings = 70 Median Wage = \$49,220	<b>Architectural and Civil Drafters</b> Annual Openings = 15 Median Wage = \$48,758	



★ 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.





# Architecture and Construction

## 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 Architecture and Construction 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	Architectural & Engineering Design	Residential & Commercial Construction	Additional Electives	Regional Postsecondary Schools	
9	Student Success	Student Success	<input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____	<b>Certificates and Associate's Degrees</b>	<b>Bachelor's and Advanced Degrees</b>
10	Career Success (LDC)	Career Success (LDC)		<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>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>
11	Dual Enrollment Architectural & Engineering Design I	Dual Enrollment Residential & Commercial Construction I			
12	Dual Enrollment Architectural & Engineering Design II	Dual Enrollment Residential & Commercial Construction II			

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

Certificate or AA	Electrician	Plumbing & Related Water Supply Services	HVAC Maintenance	Building Construction Technology	Landscaping & Groundskeeping
Bachelor's Degree	Construction Management	Facilities Planning & Management	Civil Engineering	Architecture	Architectural & Building Sciences
Advanced Degree	***	***	***	***	***

