



Engineering Innovation

The Lakeville North High School Engineering Innovation Pathway provides students opportunities to explore interests, skill sets, and career options through a variety of Science, Technology, Engineering and Math (STEM) experiences. Courses are grounded in collaboration and real-world experiences that prepare students for career certification, 2-year, and 4-year post-secondary options. Students will learn to collaborate using the engineering design process while utilizing a wide variety of technological equipment.

Pathways Towards College & Career Prep



Engineering & Technology Innovation



Manufacturing & Welding



Architecture & Computer Aided Design

	Engineering & Technology Innovation	Manufacturing & Welding	Architecture & Computer Aided Design
Introduction	<ul style="list-style-type: none"> • CAD 1 • Engineering & Innovation 1 • Geo Engineering & Design • Robotics 	<ul style="list-style-type: none"> • Manufacturing, Metals & Welding 1 	<ul style="list-style-type: none"> • CAD 1 • Architecture 1 • Geo Engineering & Design
Intermediate	<ul style="list-style-type: none"> • CAD 2 • Engineering & Innovation 2 	<ul style="list-style-type: none"> • Manufacturing, Metals & Welding 2 	<ul style="list-style-type: none"> • CAD 2 • Architecture 2 • Building Construction & Applied Architecture
Advanced	<ul style="list-style-type: none"> • Engineering & Innovation 2 • Engineering & Innovation 3/4 	<ul style="list-style-type: none"> • Manufacturing, Metals & Welding 3/4 	<ul style="list-style-type: none"> • Architecture 3

CAPSTONE PROJECTS

Occupations

<p>MECHANICAL ENGINEER</p> <hr/> <p>MEDIAN SALARY \$82,110</p> <p>PROJECTED GROWTH Faster Than Average</p> <p>EDUCATION Bachelor's Degree in Mechanical Engineering</p>	<p>CIVIL ENGINEER</p> <hr/> <p>MEDIAN SALARY \$88,750</p> <p>PROJECTED GROWTH Much Faster Than Average</p> <p>EDUCATION Bachelor's Degree in Civil Engineering</p>	<p>MANUFACTURING ENGINEERING TECHNOLOGIST</p> <hr/> <p>MEDIAN SALARY \$56,770</p> <p>PROJECTED GROWTH Slower Than Average</p> <p>EDUCATION Associate's Degree in Manufacturing Engineering Technology</p>	<p>CUTTER, SOLDERER, BRAZER, WELDER</p> <hr/> <p>MEDIAN SALARY \$44,040</p> <p>PROJECTED GROWTH Faster Than Average</p> <p>EDUCATION On-The-Job Training</p>	<p>DRAFTER</p> <hr/> <p>MEDIAN SALARY \$53,910</p> <p>PROJECTED GROWTH Faster Than Average</p> <p>EDUCATION Associate's Degree in Drafting</p>
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Source: Minnesota Career Information System