



## Lead the Way: A Workforce Development Video Contest

**REMEMBER!** You may pick ONE Industry and ONE occupation group in that industry. The 3 requirements you must highlight in the video are Top 3 skill clusters, Estimated Gap, and Expected Wages.



### **ADVANCED MANUFACTURING**

Sources: Measuring Middle Skills Occupational Gaps within the Finger Lakes Regional Economy, January 2015; Community Engagement at the Federal Reserve Bank of NY.

#### *I. TOOLING & MACHINING*

The precision machining industry in the Rochester area is one of the most technologically advanced fields. Machinists with the proper skill sets are in high demand as a result of their training in quality control and metrology. <http://bit.ly/1ysE8fz>

##### **A. Top 3 Skill Clusters**

Construction  
Production  
Communication & Coordination

##### **B. Estimated Gap**

159 jobs are estimated to go unfilled each year in the region

##### **C. Expected Wages**

Entry Wage per hour-\$11.17 per hour  
High Wage per hour-\$25.16 per hour

#### *II. APPLIED INTERGRATED TECHNOLOGIES/ MECHATRONICS*

From automation to construction to optics, the Rochester region is home to many businesses that require engineering professionals. Applied Integrated Technology is a unique, interdisciplinary program in high technology fields applying the principles of science, engineering, and mathematics to solve technical problems. <http://bit.ly/1CpiD37>

##### **A. Top 3 Skill Clusters**

Business Environment Skills  
Communication & Coordination  
Software & Programming Skills

##### **B. Estimated Gap**

166 jobs are estimated to go unfilled each year in the region

**C. Expected Wages**

Entry Wage per hour-\$12.97 per hour

High Wage per hour-\$29.14 per hour

*III. OPTIMAL SYSTEMS TECHNOLOGY*

Rochester's nickname is "The World's Image Center" because of its roots in optics, xerography, and photography, and because Rochester is still an educational and commercial leader in photonics today. <http://bit.ly/1OQ9rvo>

**A. Top 3 Skill Clusters**

Communication & Coordination

General Repair

Problem Solving

**B. Estimated Gap**

87 jobs are estimated to go unfilled each year in the region

**C. Expected Wages**

Entry Wage per hour-\$13.68 per hour

High Wage per hour-\$33.65 per hour

*IV. MECHANICAL ENGINEERING TECHNOLOGY*

Understanding how products and machinery work is the focus of mechanical engineering technology. Mechanical engineers research, design, and build machines and equipment of all types. <http://bit.ly/1IJw5kF>

**A. Top 3 Skill Clusters**

Communication & Coordination

Software & Programming Skills

Problem Solving

**B. Estimated Gap**

40 jobs are estimated to go unfilled each year in the region

**C. Expected Wages**

Entry Wage per hour-\$12.84 per hour

High Wage per hour-\$30.31 per hour

V. *ELECTRICAL ENGINEERING TECHNOLOGIES*

The role of Electrical Engineering technicians can be as varied as the workplaces they find themselves in: a pristine lab environment, a fabrication company, or a consulting firm. The Monroe County area is home to many electronics and optics manufacturers.

<http://bit.ly/1EqCoer>

**A. Top 3 Skill Clusters**

Communication & Coordination

Software & Programming Skills

Problem Solving

**B. Estimated Gap**

63 jobs are estimated to go unfilled each year in the region

**C. Expected Wages**

Entry Wage per hour-\$13.24 per hour

High Wage per hour-\$31.30 per hour