



PATHWAY 2 CAREERS

Education with Destination



Overview

Helping Schools Bridge the Gaps

A Shifting Workforce Landscape

Dramatic shifts in the workforce landscape are occurring within the United States and across the globe. These changes are due, in large part, to the emergence of the **Fourth Industrial Revolution**. Unlike previous revolutions, Industry 4.0 is rapid and pervasive. It centers around advances in automation, artificial intelligence, and the fusion of technology with almost every aspect of daily living. This fast-moving revolution is creating a new reality for job markets and fueling an unprecedented demand for a skilled workforce, especially for individuals with STEM-related skills.

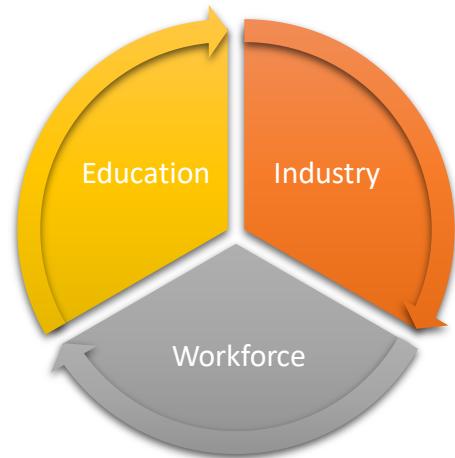


A Need for Connection

Because education and industry tend to operate in separate domains, schools and students remain largely unaware of the rapid shifts that are occurring in their local labor market. This lack of connection is resulting in significant gaps that can interfere with students' ability to achieve **employment success**.

Information Gap = Students lack knowledge of their local labor market and the skills needed to promote employment success.

Skills Gap = Students are leaving educational institutions and entering the workforce with skills that do not align with today's jobs.



Creating Bridges to Employment Success

To address the widening information and skills gaps, changes are needed in how schools connect with and use information about their local job markets.

- School and students need access to clear and accurate **information** about local job opportunities.
- Schools will need to reevaluate learning goals and upscale efforts to teach **skills** that align with today's jobs.
- Information about good jobs and valued skills can be used to develop meaningful learning experiences that **prepare** students for employment success.

Pathway2Careers

Pathway2Careers is unique both in focus and resources available to promote career-readiness. The P2C system extends beyond simple career awareness and, instead, places considerable emphasis on understanding viable career destinations for students. Using robust labor market data, P2C provides the ability to examine high-value career options in local communities. These career destinations serve as a critical point of focus to inform the development of resources and materials that are directly aligned with the skill requirements for current and future jobs. Pathway2Careers supports education in the context of real, data-supported career opportunities.

How P2C Works



DISCOVER

Labor market information is used to identify high-value career destinations.



BUILD

Educational materials are selected that help build pathways to high-value career destinations.



TEACH

Fundamental concepts are taught in the context of high-value career destinations, enhancing motivation to learn and promoting career-readiness.

P2C Products and Services

CAREER CLUSTER

Occupation - Cluster	Annual Openings	Median Wages	Projected New Jobs	Growth Rate	Pathway	Job Zone/ Education
Retail Salespersons - Marketing, Sales and Service	1183	\$22,100	1908	6.67%	Professional Sales and Marketing	1
Personal Care Aides - Human Services	1081	\$19,080	9074	42.24%	Personal Care Services	1
Combined Food Preparation & Serving Workers, Incl. Fast Food - Hospitality and Tourism	1013	\$18,050	3997	21.07%	Restaurants and Food/Beverage Services	1
Waiters & Waitresses - Hospitality and Tourism	974	\$18,690	1900	11.66%	Restaurants and Food/Beverage Services	1

Simple Labor Market Exploration Tools for Educators

Helpful LMI Terms and Definitions

Career Clusters

What are career clusters?

- National Career Clusters Framework [careertech.org/career-clusters](#)

Occupations in different clusters in foundation:

- Business, Finance, and Marketing
- Health Science
- Human Services
- Manufacturing
- Science, Technology, Engineering, and Mathematics
- Social Studies
- Sports, Fitness, and Recreation

Labor Market Information

Annual Openings = average number of job openings projected for each year

Occupation	Annual Openings	Median Wages	Projected New Jobs	Growth Rate	Pathway	Job Zone/ Education
Waiters & Waitresses	10,130	\$18,690	19,000	11.66%	Restaurants and Food/Beverage Services	1
Personal Care Aides	10,810	\$19,080	9,074	42.24%	Personal Care Services	1
Combined Food Preparation & Serving Workers, Incl. Fast Food	10,130	\$18,050	3,997	21.07%	Restaurants and Food/Beverage Services	1

High-Value Careers

To successfully identify high-value careers, effective search strategies for both high-demand and high-wage careers will need to be applied.

High-Demand High-Demand + High-Wage

Labor Market Resources and Professional Development for Educators

Career Spotlight

Applications Developer

Application developers build, create, and modify general computer applications software or specialized utility programs. They also analyze user needs and develop software solutions. They may design databases, write computer programs, and test and evaluate software products.

Industrial Engineer

Industrial engineers find ways to eliminate wastefulness in production processes. They devise efficient systems that integrate workers, machines, materials, information, and energy to maximize productivity. Many students gain experience in an internship at a company before graduation. Some students complete an apprenticeship program.

Education

Software developers apply their knowledge of computer systems and software to design, develop, and test computer programs and applications. They must understand several fields of computer science, such as computer programming, mathematics, and logic. Although writing code is not the strongest background in computer experience in school. Through to date on new tools and concepts.

Potential Employers

Industrial engineers held about 1.0 million jobs in 2016. The largest employers of industrial engineers were as follows:

Self-employed workers	35%
Residential building construction	21
Nonresidential building construction	12
Building finishing contractors	11
Foundation, structure, and building exterior contractors	9

Carpenter

Carpenters work indoors and outdoors on many types of construction projects, from building highways and bridges to installing kitchen cabinets. They construct, erect, install, and repair structures and fixtures of wood, plastic, metal, and wallboard, using carpenter's hand tools and power tools. Carpenters work in various trades, often spending frequent time between lifting, standing, and kneeling, the result of which can be tiring. Those who work outdoors are subject to variable weather conditions, which may limit a carpenter's ability to work.

Education

A high school diploma or equivalent is typically required. High school courses in mathematics, mechanical drawing, and general vocational technical training are considered useful. Some technical schools offer associate's degrees in carpentry. The programs vary in length and teach carpentry skills.

Potential Employers

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Career-Focused Math and Reading Lessons

Learn more at
Pathway2Careers.com