

INSIDE THIS ISSUE:

<i>The Workforce Solution</i>	2
<i>Energy Companies Rely on Apprenticeships</i>	2
<i>Career Pathways Roadmaps</i>	3
<i>Apprenticeship Success Stories</i>	3
<i>Employability Skills—Team Work</i>	4

Credits:

<http://college-insight.org/#spotlight/go&h=7b7ab8a8d88a18319a3512832c1ebd69>

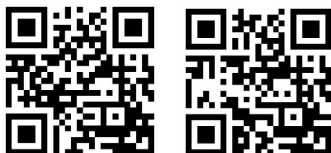
<https://www.forbes.com/sites/zackfriedman/2019/02/25/student-loan-debt-statistics-2019/#108ce645133f>

<https://icsps.illinoisstate.edu/2017/07/illinois-essential-employability-skills-framework/>

<https://www.dol.gov/apprenticeship/>

<https://www.apprenticeship.gov/faqs>

<http://www.cewd.org/roadmap/>



SKILLS GIVE YOU OPPORTUNITY

According to The U.S. Department of Labor, employers have hired over 466,000 Apprentices since January 1, 2017.



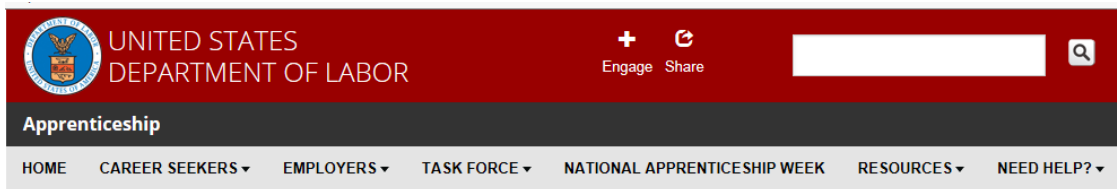
Increasingly, advanced manufacturing companies are turning to apprenticeship to develop, grow, and retain a skilled workforce. Apprenticeship programs combine on-the-job learning with related instruction in technical areas to produce qualified, highly-productive employees for careers requiring precision skills. Apprenticeship training ensures workers have the knowledge and competencies companies need for today and tomorrow.

Apprenticeship spans more than 1,000 occupations including careers in health care, cybersecurity, information technology, and energy.

Apprenticeship Components include:

- Paid Work,
- Work-based Learning, Mentorship,
- Education & Instruction,
- Industry Credential.

THE WORKFORCE SOLUTION



The Workforce Solution for the **Energy Industry**

The dynamic energy sector is always changing and growing — and a pipeline of highly-skilled workers is needed now and for the future for the industry to thrive. Energy companies throughout the country rely on apprenticeship programs to recruit, train, and retain productive and dedicated employees with the right skill sets.



"We're passionate about scaling this 'earn and learn' model in the U.S. Siemens knows first-hand how valuable apprenticeships are to growing the workforce needed to be successful."

David Etwiler, CEO, Siemens Foundation

ENERGY COMPANIES RELY ON APPRENTICESHIPS

The dynamic energy sector is always changing and growing — and a pipeline of highly-skilled workers is needed now and for the future for the industry to thrive. Energy companies throughout the country rely on apprenticeship programs to recruit, train, and retain productive and dedicated employees with the right skill sets.

High Demand Apprenticeship Occupations: Electrician, Powerhouse, Gas Utility Worker, Line Maintenance, Instrumentation Technician, Refinery Operator, Substation Operator.

The Get Into Energy Career Pathways Roadmap provides a career pathway and detailed information for each of the energy position below, geared toward the needs of specific audiences. Please click on the box appropriate to you to be taken to the detailed roadmap for that career. . .



GET INTO ENERGY CAREER PATHWAYS ROADMAPS



LINeworkERS

[FOR STUDENTS](#)
[FOR EDUCATORS](#)
[FOR THE ENERGY INDUSTRY](#)


NATURAL GAS TECHNICIANS

[FOR STUDENTS](#)
[FOR EDUCATORS](#)
[FOR THE ENERGY INDUSTRY](#)


TRANSMISSION AND DISTRIBUTION TECHNICIANS

[FOR STUDENTS](#)
[FOR EDUCATORS](#)
[FOR THE ENERGY INDUSTRY](#)


NON-NUCLEAR POWER PLANT TECHNICIANS

[FOR STUDENTS](#)
[FOR EDUCATORS](#)
[FOR THE ENERGY INDUSTRY](#)

<http://www.cewd.org/roadmap/>

APPRENTICESHIP SUCCESS STORIES (DOL.GOV)

Bob Tanchak

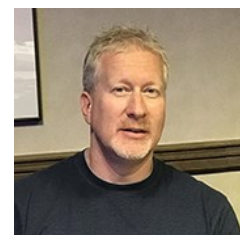
Professor, Mechanical Technology at Onondaga Community College and Part-Time Professor, Industrial Design at Syracuse University

Bob Tanchak is a professor teaching full-time at Onondaga Community College (OCC) and part-time at Syracuse University (SU). First having completed his associate's degree in Electrical Tech, Bob went on to earn his Bachelor's of Science in Electrical Tech at SUNY Polytechnic Institute, and Master of Science in Manufacturing Engineering at SU. While earning credit toward his postsecondary degrees he completed a Apprenticeship with Chrysler as a Machine Repair Journeyman. Bob is currently working on a PhD in Mechanical and Aeronautical Engineering.

When Bob was at Chrysler he earned \$24,000 per year, then he was able to parlay all his skills into teaching, applying new skills and academic credentials that quickly expanded his salary.

Bob likes giving back to kids and to his community, making connections between school and life. He is currently helping a local advanced manufacturing company support apprenticeship by managing their apprentices as well as teaching blueprint reading to apprentices with the Manufacturing Association of Central New York.

His career as an educator started after he earned his journey worker card while at Chrysler where he was appointed to oversee the apprenticeship training program. During his tenure in this role he enlisted support from a former educator at OCC to support him manage the program. This educator recognized his skills as an instructor and asked him to teach a metallurgy class at OCC. Realizing that he didn't have experience in metallurgy, he found a course in Detroit, MI through Chrysler. His days were spent in the program with Chrysler, while he taught at night with OCC. One year later he was hired full-time by OCC.



Anne J. Cothran, Ed.D.
Director
Des Plaines Valley Region
EFE 030

c/o Triton College M Building, M100
2000 N. Fifth Ave.
River Grove, Illinois 60171

www.dvr-efe.org

www.dvr-efe.info



DVR Board of Directors

Dr. Nicolas Wade
Superintendent
Elmwood Park District 401

Dr. Nick Polyak
Superintendent
Leyden HS District 212

Dr. Joylynn Pruitt-Adams
Superintendent
Oak Park & River Forest HS
District 200

Dr. Jesse J. Rodriguez
Superintendent
Proviso Twp. HS District 209

Dr. Jennifer Kelsall
Superintendent
Ridgewood HS District 234

Dr. Kevin Skinkis
Superintendent
Riverside-Brookfield HS
District 208
FY20 DVR Board President

Ms. Mary-Rita Moore
President
Triton College



EMPLOYABILITY SKILLS

Employers are concerned about more than a particular technical skill. They also want people with good employability skills, regardless of the job you are in. What are employability skills, you ask? “Essential employability skills are those general skills that are required to be successful in all sectors of the labor market and are separate from the technical skills attained in career pathways or academic skills such as math and reading.”

What do employers want? There are four major categories: Personal Ethic, Work Ethic, Teamwork, and Communication.

Let's take a look at Team Work .

a. Critical Thinking

- i. Demonstrates sound decision making
- ii. Exhibits problem solving skills

b. Effective and Cooperative Work

- i. Demonstrates an ability to work effectively with others
 1. Is willing to ask questions and seek clarification or guidance
 - ii. Uses appropriate strategies and solutions in dealing with conflicts/differences to maintain a smooth workflow

For more information on the Illinois Essential Employability Skills Framework, go to: <https://icsps.illinoisstate.edu/wp-content/uploads/2017/07/Essential-Handout-2.pdf>

