

# Teacher in the Workplace

Project Overviews & Updates



## TEACHER IN THE WORKPLACE

grants connect teachers, counselors, and administrators with experiences in business and industry to learn about industry needs, trends, and opportunities that can be brought back to the classroom.





## Teacher in the Workplace Overviews and Updates

December 2018

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## Introduction

### Teacher in the Workplace July 1, 2018 to June 30, 2019

#### Overview

Pennsylvania's Department of Labor and Industry, or L&I, in cooperation with the Pennsylvania Department of Education, or PDE, awarded \$1,927,380.96 in grants to local workforce development boards across the state for Teacher in the Workplace, or TIW, programs. In partnership with local workforce development boards, schools are developing and implementing TIW programs that connect educators' K-12 classrooms to workplaces across Pennsylvania. Through TIW programs, teachers, counselors and administrators are provided experiences interacting directly with industry and business leaders, and learning about industry trends, needs and opportunities they can bring back to the classroom to enhance instruction, student learning, and career readiness. These projects support business and education partnerships by connecting local businesses with schools and promoting career pathways across multiple sectors. The program's purpose is to help educators align academic content to careers and make classroom connections for students to prepare them for postsecondary success.

Workforce development boards have partnered with multiple organizations (e.g., school districts, intermediate units, chambers of commerce, postsecondary institutions, economic development entities and community organizations) that immerse educators into industry experiences. Through a collaborative process, educators will integrate career-ready skills into classroom instruction. By enhancing their knowledge of local employer needs, teachers align instruction to specialized career pathways and the types of employability skills and qualifications required for occupations in local industries. In turn, students can learn skills that help close local and statewide skills gaps.

#### Background

TIW grants were historically L&I funded Educator in the Workplace grants, and part of the Business Education Partnership program on a smaller scale and without statewide implementation.

In spring 2018, L&I and PDE developed a TIW grant framework, funded by an initial \$1 million allocation. Due to high demand and high-quality applications, increased funding brought the total to nearly \$2 million. Forty-eight grants were awarded using WIOA Statewide Activity funds at 100 percent of requested amounts.

In fall 2018, the departments worked together to update and improve the project based on lessons learned. A total of \$2.5 million is allotted for funding, and the period for applications is extended to allow more time for applicants to collaborate with local partners. Applications are being accepted for the second round of funding, with emphasis on aligning current workforce needs and measurable outcomes in classroom instruction.

This project highlights the collegial relationship between L&I and PDE and is just one example of cross-agency collaboration.

#### Data Snapshot

Applications received 61

Projects funded 48

School Districts – 193

Charter Schools-6

Career & Tech Schools-8

Private Schools- 2

Total LEA - 209

Teachers projected to participate - 1581

NAICS Industries represented - 13

## Teacher in the Workplace Overviews and Updates

### Best Practices

The TIW program provides educators with hands-on experience and an opportunity to make connections between the academic subjects they teach, and the skills, knowledge and competencies needed in the workplace. Through the TIW workplace model, industry skill competencies are identified, and teachers can take that knowledge and apply it to the classroom to prepare students for career readiness in the 21st century. A multi-faceted approach to the education-workplace professional-development model may include externships, internships, STEM project-based learning teacher immersion workshops with industry partners, industry tours (live and webinars), and opportunities for teachers to earn industry credentials in their subject areas. Virtual experiences address barriers for educators who may not have access to TIW on-site experiences.

Preparation for the TIW experience may include a pre-program orientation outlining expectations and a work plan with the industry partner. The bulk of the program activity includes the industry-based experience and the post-experience for curriculum alignment specific to the industry's needs. The primary goal of the Teacher in the Workplace experience is to help educators align academic content to careers and make those connections for students to prepare them for postsecondary success.

### Participant Feedback

Participant feedback has been overwhelmingly positive. A 33-year teaching veteran from Trinity High School in Southwest Corner has said that this is the best professional development experience of his career. In Lancaster, 60 educators participated in an externship with Case New Holland, and a Garden Spot High School teacher particularly appreciated the opportunity to learn more about workforce trends and to know where in-demand jobs are for her students. She reports that this experience has expanded her ability to discuss jobs in the agriculture industry that she would have been otherwise unaware of. A Lancaster teacher from La Academia Charter School was surprised to learn how big Case New Holland is and how many different careers a single local employer had to offer her students. A teacher from Edward Hand Middle School observed through his experience at Case New Holland that to be competitive in the workforce, he had to help his students learn how to work effectively in a team, and he felt energized to return to the classroom with that in mind.

### Sustainability

Through the TIW model, teachers build stakeholder relationships that perpetuate future TIW and work-based learning experiences for teachers and students. The implementation of curriculum aligned to industry needs feeds into the workforce pipeline with students who are career ready for post-secondary success.

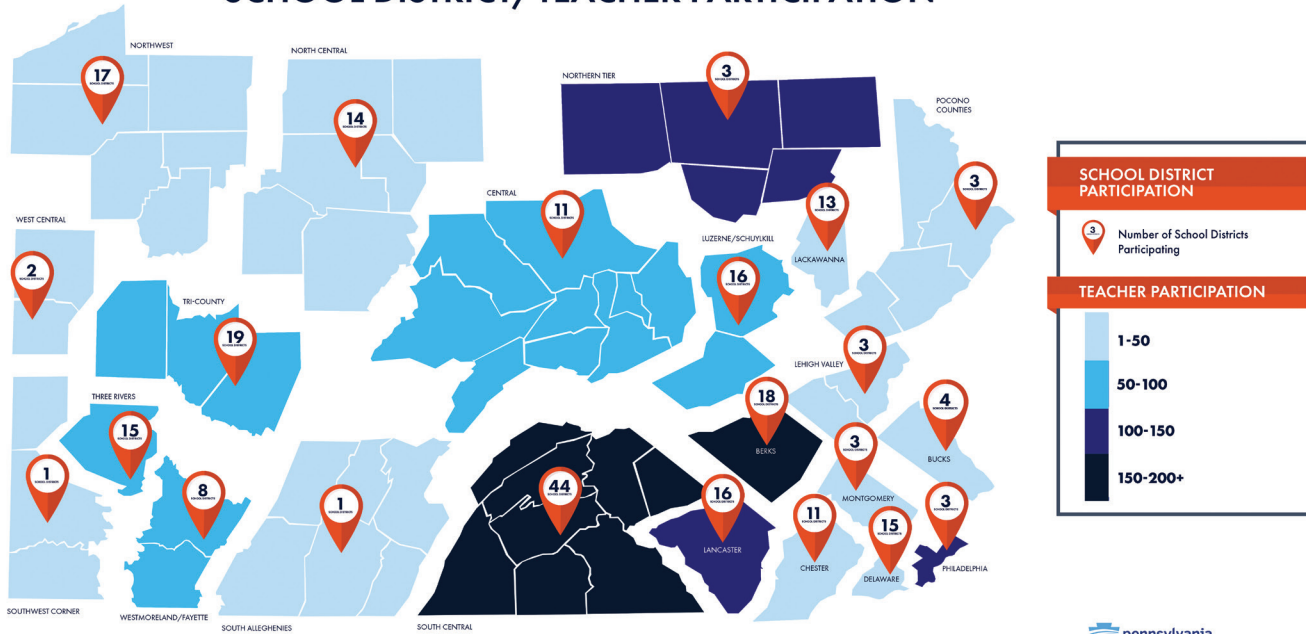
PDE has developed a Career Readiness State Training Support plan in 10 Career Ready Regions (mapped to DCED PREP regions) to support schools in career readiness education. Act 48 professional development training will be included in TIW for each of the regions that will include a workshop and "live" event. With two years of TIW grants through L&I, and professional development through PDE in 2018, 2019 and beyond, a collaborative process will support alignment of education and workforce needs.

### Project Metrics (Due July 2019)

- The industry that the teacher visited.
- How that industry was selected - (By teacher or by the nature of the proposal).
- How relevant that industry is to the teacher's classroom focus.
- How curriculum will be changed to include lessons learned from the TIW project.
- How many students the teacher teaches in a given year.
- School Name.
- School District.
- Suggestions for improvement of the projects.

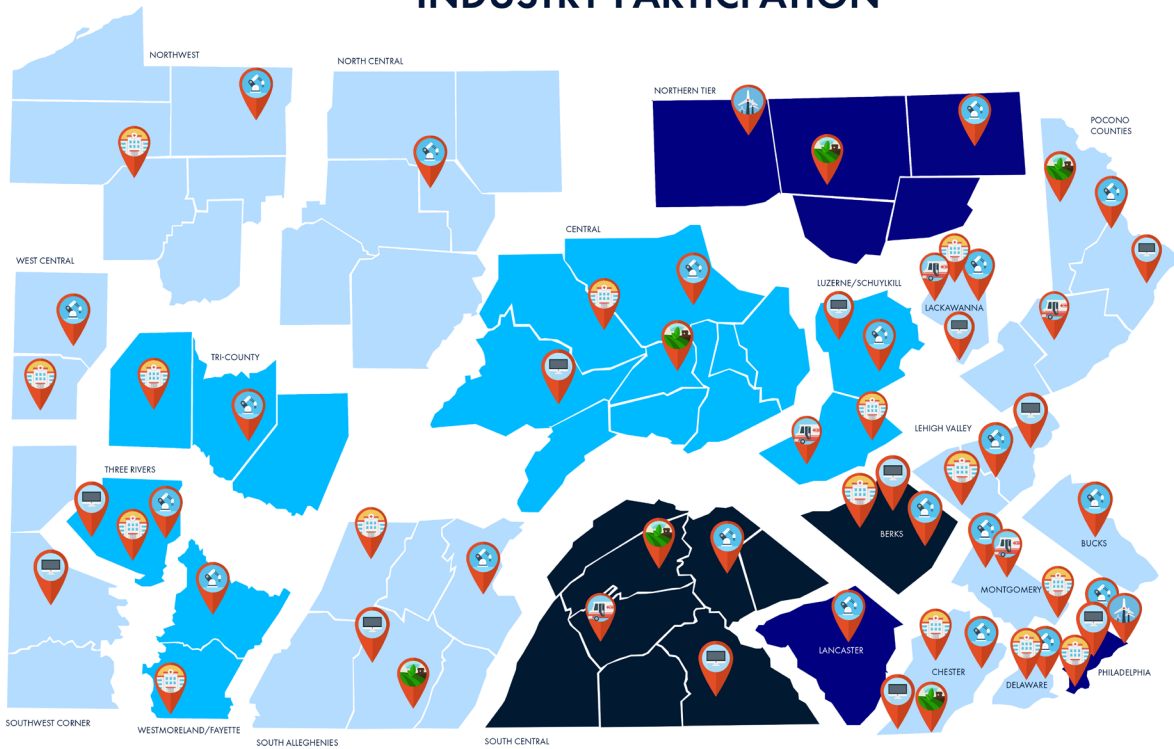
# Teacher in the Workplace

## SCHOOL DISTRICT/TEACHER PARTICIPATION



# Teacher in the Workplace

## INDUSTRY PARTICIPATION



Agriculture



Energy



Business Services IT



Advanced Manufacturing



Healthcare



Logistics/Transportation



## Project Overviews & Updates

### Berks County Workforce Development Board

**Grantee:** Berks County Workforce Development Board

**Grant Title:** Berks County Career Pathways Alliance: Capacity Building for the Inside Berks Business (IBB) Educator Internship Program

**Award:** \$50,000

**Where:** Berks County

**Overview:** *Inside Berks Business* is governed by an advisory board representing major businesses, Berks Business Education Coalition, Berks County Intermediate Unit, Berks Workforce Development Board and Berks County school district. Educators participating in the Educator in the IBB Workplace internship program will receive exposure to careers that are associated with five broad career clusters (Arts & Communication, Business, Finance & IT, Engineering and Industrial Technology, Human Services, Science & Health). Educators will increase their first-hand knowledge of local regional workforce occupational needs/trends and the skills students are required to have to be successful in the workplace, integrate new knowledge into existing lesson plans, communicate such information to their students, improve engagement between the education and private sectors and share their experiences with grade-alike and job-alike colleagues across the country.

**Project Update:** During the five-day summer program, 19 teachers visited 16 businesses. They have since shared their experiences with administrators and are using what they learned to write informed curriculum. Right now, with 38 registered teachers, the project is running a one-day TIW job-shadow program during the school year. When participants complete their job shadowing and an online course, they'll share their experiences with the other teachers in the county. Planning for the summer 2019 program is underway, as well as a five-day intensive internship program to get teachers involved that will begin in January 2019.

### Bucks County Workforce Development Board

**Grantee:** Bucks County Workforce Development Board (BCWDB)

**Grant Title:** Education and Industry Partnership

**Award:** \$50,000

**Where:** Bucks County

**Overview:** The BCWDB will partner with several school districts to encourage partnership between education and industry through activities such as educator visits to industry, curriculum planning based on knowledge gained and a review of career pathways and labor market information provided by the local workforce development board.

**Project Update:** Twenty-five teachers, seven of whom have completed internships with local employers, are working to share best practices and develop relevant curriculum.



## Central Workforce Development Board

**Grantee:** Central Workforce Development Board

**Grant Title:** Teacher in the Workplace Externship Program

**Award:** \$11,693

**Where:** Columbia and Montour Counties

**Overview:** Educators will spend five consecutive days interning at a local company within their selected career pathway. They will shadow in a variety of jobs to better understand how academic skills translate to real world workforce skills and where disconnects may exist within the career pathway.

**Grantee:** Central Workforce Development Board

**Grant Title:** Nurturing Tomorrow's Workforce Today in Central PA

**Award:** \$49,170

**Where:** Centre, Clinton, Columbia, Lycoming, Mifflin, Montour, Northumberland, Snyder and Union counties

**Overview:** This project will create an opportunity for educators to have real-world workplace experiences that will inform their teaching and guidance to students. Teachers will participate in on-site learning in multiple work environments and then integrate their learnings into their classroom instruction.

**Grantee:** Central Workforce Development Board

**Grant Title:** Future Ready in Williamsport

**Award:** \$26,343

**Where:** Lycoming County

**Overview:** Williamsport Area School District teachers and counselors will be placed into businesses and industries that serve the district's population so that district professionals can educate students on community employment opportunities, particularly those within PDE's Future Ready PA index.

**Grantee:** Central Workforce Development Board

**Grant Title:** Project BEST: Business and Education Standing Together

**Award:** \$36,850

**Where:** Columbia County

**Overview:** Project BEST will provide K-12 teachers experience in today's businesses. Teachers will coordinate time in local businesses and industries to better understand what soft skills and work skills students will need to become career ready. The project's goal is to integrate the project model directly into the classroom, where the business employers can share their expertise with students. Teachers will be expected to align the components of the career pathways and career readiness indicators with training, skills and certifications needed for jobs in the region.

**Project Update:** Four programs are up and running: two with school districts, one with the Central Susquehanna Intermediate Unit and another with the Columbia-Montour Chamber of Commerce. In the Williamsport Area School District project, 16 educators have completed employer visits and are working on their curricula. Teachers in the Columbia County project have conducted a closing event, and CSIU is recruiting teachers across two cohorts. The first cohort of 26 was filled to capacity; six have signed on for the second, which begins training December 2, 2018. The Chamber project will begin in Spring 2019.

## Chester County Workforce Development Board

**Grantee:** Chester County Workforce Development Board

**Grant Title:** The Chester County STEM Leadership Academy

**Award:** \$50,000

**Where:** Chester County

**Overview:** This project consists of a five-day learning opportunity for teachers to learn about career access, retention, attainment and progression. Twenty-five educators will participate and will be challenged to think about tradition instruction, student learning styles and 21st century skills during learning opportunities with industry professionals.

**Project Update:** Largely still in planning, the project has filled 21 of 25 spots for participating teachers. Partners are working to create an online tool what will permit recruits to navigate and select internship opportunities and schedule their participation, allowing teachers from across the county to more easily engage the program and one another in the process.

## Delaware County Workforce Development Board

**Grantee:** Delaware County Workforce Development Board

**Grant Title:** Preparing Students for the Future: Making the Connection between Industry and Classroom Instruction

**Award:** \$14,112.20

**Where:** Delaware County

**Overview:** A group of up to eight educators in student services support roles from the Delaware County Technical High School will participate in a one- to two-week program with multiple business partners to learn about the industries in which their students will be employed. Educators will study the Career Education Work (CEW) standards and share and develop strategies for implementing work-based learning into career technical education classrooms.

**Project Update:** Teachers and administrators developed questions, reviewed CEW Standards, employability skills and more. During the summer 2018, they toured workplaces with occupations connected to local career and training centers, interviewing employers to learn more about the types of academic and soft skills students will need to be successful. When finished, participants – using what they learned – worked together create a work-ethic rubric CTC teacher and use during this academic year.

## Lackawanna County Workforce Development Board

**Grantee:** Lackawanna County Workforce Development Board

**Grant Title:** Educators in the Workplace – Bridging the Gap Between Education and Business

**Award:** \$50,000

**Where:** Lackawanna County

**Overview:** The Lackawanna Workforce Development Board, in partnership with the Greater Scranton Chamber of Commerce, seeks to align and connect business industry leaders with local school districts by providing educators an opportunity in one of four week-long industry-specific immersion experiences. This will engender a connection between the classroom and the workplace and will ensure that students are being taught the essential knowledge and skills to prepare them for the workplace of today and tomorrow.

**Project Update:** Led by the Greater Scranton Chamber of Commerce, 10 schools and one career and technical center will provide opportunities across the health care, logistics and transportation, advanced manufacturing and business and financial services sectors during the 2018-2019 school year. Targeting 45 teachers as a participation goal, the Chamber has 56 applications on file, and is anticipating 10 more. Local workforce development professionals, Chamber membership, educators and human resources professionals have already completed a review of the first sector the project is examining: logistics and transportation. Participants have been very excited to learn, first-hand, about the skills and tools students will need to master if they're to find success in the industry. Teachers are expected to take what they've learned back to the classroom, apply it in instruction, and report back to the local workforce development board on their work and results.

## Lancaster County Workforce Development Board

**Grantee:** Lancaster County Workforce Development Board

**Grant Title:** Project RELATE: Reciprocal Learning Among Teachers and Employers

**Award:** \$50,00

**Where:** Lancaster County

**Overview:** Project RELATE will engage approximately 125 educators and five advanced manufacturing employers in one of three models of reciprocal workplace learning. Employers and teachers will work together to design authentic, work-based learning experiences that will match actual workplace problems with specific academic standards. Teachers and workplace volunteers will deliver cooperatively designed lessons together.

**Project Update:** Between Aug. 6-8, 2018, 60 participants engaged about 100 Case New Holland employees who donated more than 1,000 in-kind hours. On Sept. 20, 2018, Legacy STEM hosted the first of six one-hour webinars. These webinars will give participants the opportunity to directly engage company representatives, review CEW standards, and discuss the implementation of those standards and what they look like in the workplace. Planning for 2019 is beginning, with early decisions about next year's facility tours scheduled to begin before the end of 2018.

## Lehigh Valley Workforce Development Board

**Grantee:** Lehigh Valley Workforce Development Board

**Grant Title:** Teacher in the Manufacturing Workplace

**Award:** \$50,000

**Where:** Lehigh County

**Overview:** The Teacher in the Manufacturing Workplace program will create an externship experience designed to help teachers identify the current skills that will most significantly impact the future employment of their students and address the critical, local need for a skilled workforce. Twenty-five K-12 educators will learn what employers need directly from those in the workplace.

**Grantee:** Lehigh Valley Workforce Development Board

**Grant Title:** Catasauqua Area School District Educator in the Workplace

**Award:** \$17,600

**Where:** Lehigh and Northampton Counties

**Overview:** The Philadelphia Federation of Teachers Science Professional Development Leaders has spearheaded a program designed to provide teachers with an awareness of the manufacturing career landscape, including a hands-on experience into the next level of manufacturing: advanced manufacturing technologies. This project will capitalize on that existing program to build a platform which will contribute to connecting the region's future workforce to the manufacturing ecosystem using K-12 teachers as initial purveyors of baseline technical knowledge of additive manufacturing.

**Project Update:** In the first of two projects, Lehigh Carbon Community College, serving Allentown and Parkland School Districts and with a focus on manufacturing, served 13 participants seven in Allentown and six in Parkland) and focused on manufacturing. Educators have crafted lesson plans which integrate. The second project, with Catasauqua School District (the smallest in Lehigh County), is serving 16 educators. In November 2018, they participated in the DaVinci Science Center's Made in America professional development session, and learned about "The Dream Team," a group of professionals, aged under 30 years, who go into classrooms to do speaking events. Both projects plan to apply for 2019 funding sources.

## Luzerne-Schuylkill Workforce Development Board

**Grantee:** Luzerne-Schuylkill Workforce Development Board

**Grant Title:** Bridging the Workplace, Classroom and Out of School Time Environment

**Award:** \$50,000

**Where:** Carbon, Luzerne and Schuylkill Counties

**Overview:** This project is a regional initiative of the Carbon-Schuylkill-Luzerne County STEM Ecosystem. Twenty-five educators will be recruited to participate in a six-day program scheduled from December-May of the 2018-19 school year. The program will focus on science, technology, engineering and mathematics career cluster as well as the manufacturing, IT and transportation distribution and logistics career clusters as they relate to advanced manufacturing.

**Grantee:** Luzerne-Schuylkill Workforce Development Board

**Grant Title:** Impact: Leadership in Education

**Award:** \$35,000

**Where:** Luzerne and Schuylkill

**Overview:** The curriculum is designed to increase the participant's capacity to collaborate effectively, exercise leadership and make substantial positive progress in schools by giving participants the unprecedented opportunity to leave their classrooms and build connections with the infrastructure of the surrounding community. Through monthly, intensive day-long seminars from September through April, participants engage an analysis of the private sector, education system and key strategies to implement educational progress in the region.

**Grantee:** Luzerne-Schuylkill Workforce Development Board

**Grant Title:** Educating from the Workplace to the Classroom

**Award:** \$33,889

**Where:** Luzerne County

**Overview:** Through a hands-on opportunity for educators to spend time in partnering workplaces, the project will inform educators about the necessary skills and qualifications for today's in-demand occupations which will be used to inform students in the classroom.

**Project Update:** Luzerne-Schuylkill is operating three projects. The first – with 32 participants – developed a soft-skills component for eighth and eleventh graders, one aspect of which was a to visit Luzerne-Schuylkill Community College to discuss inventories that were created with the students, and specific training and occupations related to their interests. Organizers expect to receive a form from participating educators describing how they have worked lesson plans that they developed during the training into the classroom. The second project, with 26 teachers enrolled, visited Harrisburg to meet with legislators and Labor & Industry officials to familiarize themselves with L&I and Workforce Development. Finally, the Lehigh-Carbon Community College STEM Ecosystem project kicks off in December 2018 and will train 25 teachers in eight districts, who'll visit at least three employers.

## Montgomery Workforce Development Board

**Grantee:** Montgomery Workforce Development Board

**Grant Title:** Reimagining College and Career Pathways

**Award:** \$25,783.50

**Where:** Montgomery County

**Overview:** In the areas of general education, transition programming for students with disabilities and career education, onsite learning and interaction with industry partners and local businesses will be critical to the development of a reimagined curriculum. Staff will create curriculum projects that will influence lesson plans for their students and will share them collaboratively.

**Grantee:** Montgomery Workforce Development Board

**Grant Title:** Real-world STEM Learning to Enhance Curriculum and Instruction

**Award:** \$50,000

**Where:** Montgomery County

**Overview:** Educators will participate in a six-day program designed to place teachers in a shadowing experience within STEM careers and then have them create curricular connections and next steps collaboratively with each other.

**Grantee:** Montgomery Workforce Development Board

**Grant Title:** CMTHS Auto Body Learning Educator Experience

**Award:** \$5,000

**Where:** Montgomery County

**Overview:** The Central Montco Technical High School, or CMTHS, auto-body instructor will participate in a 20-hour summer internship in two separate local auto-body collision businesses. He will then create new lesson plans based on his experiences. During the school year, the CMTHS instructor and students will tour local auto body collision businesses so students can observe and conduct their learning in the real-life day-to-day work environment. Educators will be invited to participate in tours and educational career activities that will elaborate and explain on the faster-than-average job outlook for auto body technicians.

**Project Update:** Central Montco Technical High School has had one instructor working two internships with local auto body companies. He will modify lesson plans and is planning field trips for students this fall. Abington School District has identified teachers and guidance counselors to participate and is connecting them to industry tours sometime within the next four to six weeks. Finally, Souderton School District is in the planning phase, and is focused on STEM fields.

## North Central Workforce Development Board

**Grantee:** North Central Workforce Development Board

**Grant Title:** **Educator in the Workplace** – Clearfield and Jefferson Counties

**Award:** \$49,960

**Where:** Clearfield and Jefferson Counties

**Overview:** The project's goal is to provide 40 educators with opportunities to engage in research-based professional development enhanced by TIW experiences. This collaborative effort of several agencies will enable educators to interact directly with industry and business leaders, learning about industry trends, needs and opportunities that will be brought back to the classroom to enhance instruction, student learning and career readiness.

**Grantee:** North Central Workforce Development Board

**Grant Title:** **Educator in the Workplace** – IU9 Service Region

**Award:** \$50,000

**Where:** Cameron, Elk, McKean and Potter Counties

**Overview:** The **Educator in the Workplace** program will take place in the summer as well as throughout the year. The summer experience will be a three-day initiative offered during the summers of 2018 and 2019. Each experience will include an overview of local labor market information with an emphasis on High Priority Occupations, overview of the CEW standards, demonstrating how the experience aligns with the CEW standards, business and industry panels representing multiple industries followed by company tours and a wrap up discussion among participating educators to discuss how they will implement what they learned in the classroom.

**Project Update:** In Clearfield and Jefferson Counties, 18 teachers are participating in a four-day program through ASSET STEM. The first two days were in early October 2018, and in January 2019, they will visit a business for their third day. Once complete, they'll attend a fourth day to discuss how to use knowledge gained and develop a lesson plan. Project follow-up will gauge their progress and success. The other project, one in Elk, Cameron, McKean and Potter counties and in partnership with Community Education Centers, served 54 teachers this past summer and they'll hold another summer program in June. Grantees submitted a modification (currently pending approval) for an Adopt-a-Teacher program available throughout the local area, but mainly in Cameron, McKean, Elk and Potter counties. The project is making these experiences available to all school districts in the area via the mod. In January 2019, 80 teachers will hear from a panel of employers representing industries across the region. Additionally, participants – in two different trips – will meet with a company close to their school and then the local board for follow up. If approved, the modification is expected to boost participation significantly.

## Northern Tier Workforce Development Board

**Grantee:** Northern Tier Workforce Development Board

**Grant Title:** Tioga County Career Ready Rounds

**Award:** \$19,911.78

**Where:** Tioga County

**Overview:** Educators will develop a deeper understanding of CEW standards through an orientation day which will include program expectations and outcomes. Three days spread throughout the school year will be devoted to **Educator in the Workplace** exposing teachers to are high-priority occupations. Educators will tour facilities, discover STEM jobs associated with these industries, identify relevant training opportunities, credentialing procedures, skills for advancement and the availability of family-sustaining wages in these careers.

**Project Update:** The grantee reviewed applications, notified 26 participants of acceptance, and held a team-building day on Oct. 5, 2018. Participants made their first visit to an employer and curriculum-development day later that month. Teachers are now administering the lesson plans that they wrote and collecting student feedback. Some teachers are taking students to visit the farm they themselves visited, while others are visiting manufacturers. A second employer visit, one in the health care sector, is being scheduled for January 2019.

## Teacher in the Workplace Overviews and Updates

### Northwest Workforce Development Board

**Grantee:** Northwest Workforce Development Board

**Grant Title:** NWPA Teacher in the Workplace

**Award:** \$50,000

**Where:** Erie, Crawford and Warren counties

**Overview:** The Northwest Teacher in the Workplace program will provide an opportunity to connect 30 educators from 17 school districts, five charter schools and four career and technical centers in Erie, Crawford and Warren counties to regional manufacturing and health care businesses/employers. Participants will participate in a 30-hour course, which will include on-the-job learning experiences in STEM related jobs. Participants will develop innovative project-based learning lessons and present them at a culminating session consisting of all stakeholders.

**Grantee:** Northwest Workforce Development Board

**Grant Title:** Teacher in the Workplace – Clarion, Forest and Venango Counties

**Award:** \$49,960

**Where:** Clarion, Forest and Venango Counties

**Overview:** The TIW program will take place in the fall of the 2018-19 school year. The experience will require a commitment of four days, three face-to-face sessions with the facilitation team from ASSET Stem and one day on-site with a workplace employer partner. Each experience will include an overview of local labor market information with an emphasis on high-priority occupations, overview of the CEW standards demonstrating how the experience aligns with the CEW standards, business and industry panels representing multiple industries, followed by company tours and a wrap of discussion among participating educators to discuss how they will implement what they learned in the classroom.

**Project Update:** The grantee is operating two projects. The first project, which began in fall 2018, includes on-site exploration, a debriefing session and full days spent by teachers (a cohort of 10) with employers learning about the workforce issues companies are facing and available opportunities in health care and manufacturing available. Because educators were split among different employers, they held a zoom session to debrief. A second cohort will participate in January 2019. The second project, serving a cohort of 18 educators, shall meet to discuss ways to increase participation, and may need to consider a modification in the near future. The project is working hard to identify willing employers but faces the challenge of finding them across a rural area.



## Philadelphia Workforce Development Board

**Grantee:** Philadelphia Workforce Development Board

**Grant Title:** Connecting Philadelphia Educators and Local Energy Workforce Opportunities

**Award:** \$50,000

**Where:** Philadelphia County

**Overview:** Philadelphia Works, Inc. will manage a July 2018 externship, planned and executed by nonprofit, The Philadelphia Education Fund (PEF), for 25 in-school and out-of-school time grades 9-12 Philadelphia educators at the offices of energy leader Johnson Controls. Over four days, educators will visit and engage with Johnson Controls staff across job roles and worksites, to discover skillsets, responsibilities and qualifications for these careers and, from a PEF-led professional development training, educators will create, share and deliver lessons and activities for students centered around career exposure and readiness.

**Grantee:** Philadelphia Workforce Development Board

**Grant Title:** Teacher in the Workplace STEM Fellowship

**Award:** \$50,000

**Where:** Philadelphia County

**Overview:** Through the year-long STEM Fellowship, educators will increase their cross-school networks and build capacity for resource building and idea sharing between Fellows. The program aims to engage 25 educators in 40 hours of documented professional development to deepen their understanding Pennsylvania's CEW standards, collaborate in planning for classroom activities such as work-based learning experiences and provide direct experience for hands-on learning with career professionals in the work setting. Fellowship activities will take place during a two-day summer institute and three days during the school year, which will include two on-the-job learning activities with career industry partners. Additionally, online reflections, collaborative planning and support for work-based learning experiences with students will also be incorporated as well as an end of year demonstration and peer learning event.

**Grantee:** Philadelphia Workforce Development Board

**Grant Title:** Teachers in the Healthcare Workplace

**Award:** \$50,000

**Where:** Philadelphia County

**Overview:** The District 1199C Training & Upgrading Fund proposes to partner with Philadelphia Works, Inc. and a coalition of local workforce/education practitioners to provide 40 hours of health care and human services, sector-focused, professional development and on-site work-based learning with employer partners. Approximately 25 educators – teachers and other school personnel, including out-of-school-time providers – will be recruited and enrolled in the proposed Teachers in the Healthcare Workplace programming.

**Grantee:** Philadelphia Workforce Development Board

**Grant Title:** Legacy Pathways – Legacy Bridges NASA Legends & Trail Blazers STEM Institute

**Award:** \$50,000

**Where:** Philadelphia, Montgomery and Delaware Counties

**Overview:** The learning experience that is being proposed provides an opportunity for 30 middle and high school teachers and out-of-school STEM education providers in Greater Philadelphia to come together in a "teacher" team learning institute focused on STEM education and the National Aeronautics & Space Agency (NASA) and the International Space Station. The teacher teams will participate in an intense four-day summer learning experience with workplace professionals from NASA and STEM related industries who will facilitate and simulate hands-on, investigative activities that will then be integrated and translated into their own classroom instruction. This instruction will connect to the students' curiosity of exploring a career path that may have been previously unfamiliar to them or something in which they have a budding interest.

## Philadelphia Workforce Development Board *(continued)*

**Grantee:** Philadelphia County Workforce Development Board

**Grant Title:** Aspira Charter Middle Schools Energy Efficiency/Environmental Remediation

**Award:** \$50,000

**Where:** Philadelphia County

**Overview:** Twenty-five middle school teachers from Aspira’s Eugenio Maria de Hostos, Antonio Pantoja, John B. Stetson and Aspira Bilingual Cyber Charter Schools will learn about climate change, conservation, energy efficiency, renewable energy and storm water management. This training will enable curriculum development and a medium term (four to seven years) pipeline of potential STEM workforce.

**Grantee:** Philadelphia Workforce Development Board

**Grant Title:** Additive Manufacturing and the Workforce of the Future

**Award:** \$26,700

**Where:** Philadelphia County

**Overview:** The Philadelphia Federation of Teachers Science Professional Development Leaders has spearheaded a program designed to provide teachers with an awareness of the manufacturing career landscape, including a hands-on experience into the next level of manufacturing: advanced manufacturing technologies. This project would capitalize on that existing program to build a platform which will contribute to connecting the region’s future workforce to the manufacturing ecosystem using K-12 teachers as initial purveyors of baseline technical knowledge of additive manufacturing.

**Project Update:** All six projects in the area are either underway or have completed, and all six are projected to meet all their stated program goals. In all, nearly 130 teachers have been served, with Legacy Pathways – Legacy Bridges NASA Legends & Trail Blazers STEM Institute not yet having met its target of 30. Four of the six plan to apply again and one new program will be applying.

## Pocono Counties Workforce Development Board

**Grantee:** Pocono Counties Workforce Development Board

**Grant Title:** Employers and Educators: Bridging the Gap

**Award:** \$50,000

**Where:** Carbon, Monroe, Pike and Wayne Counties

**Overview:** A comprehensive, region-wide TIW program consistent with the Pocono Counties Workforce Development Comprehensive Plan. By targeting specific sectors and occupations, educators in the region will become more aware about future employment needs within the Pocono Region.

**Project Update:** With 40 teachers in two cohorts of 20 served so far, the project has reached 160 percent of its participation goal. Participating teachers in four counties are working with administrators to schedule two days each month (beginning in January 2019) for after-school activities and two full days of external immersion during the third week of June.

## South Central Workforce Development Board

**Grantee:** South Central Workforce Development Board

**Grant Title:** Lebanon Educator-Workplace Partnership

**Award:** \$50,000

**Where:** Lebanon County

**Overview:** Middle-school educators from Lebanon County will engage in five non-consecutive days of professional learning during the 2018-19 school year. Educators will keep a log of connections they make between their externship lessons learned, the PA CEW standards, 21st century skills and their own curriculum. On the final day, these educators will collaborate to develop new lesson plans to be shared with other middle school educators in the IU13 region.

**Grantee:** South Central Workforce Development Board

**Grant Title:** Educator in the Workplace Grant

**Award:** \$50,000

**Where:** Franklin County

**Overview:** Educator in the Workplace will help educators understand how the topics they teach relate to the real-world workplace and provide them with the opportunity to enhance their lessons with this information. Educators will perform site visits to employers in the county throughout the year and the program will conclude with a presentation to include presentations from the teachers.

**Grantee:** South Central Workforce Development Board

**Grant Title:** West Shore Teacher in the Workplace STEM Academy

**Award:** \$35,071

**Where:** Adams, Cumberland, Dauphin, Franklin, Lebanon, Perry and York Counties

**Overview:** Over six days, small groups of educators in the West Shore School District will have the opportunity to explore at least four regional manufacturing facilities to better understand the opportunities that exist in the largest sector of the local economy. This exposure is ideally to help shift the mindset from a "college for all" to a post-secondary credential or pathway for all.

**Grantee:** South Central Workforce Development Board

**Grant Title:** FrAY STEM Ecosystem Educator in the Workplace

**Award:** \$30,897

**Where:** Adams and Franklin Counties

**Overview:** The project's goal is for educators to visit and experience local businesses, primarily those connected with growing STEM fields and create lesson plans to support the PA CEW standards. Projects and lesson plans will be hosted in an online and searchable format, so they can be accessed by other educators and applicable to grades K-12 and embedded into general subject course areas.

**Grantee:** South Central Workforce Development Board

**Grant Title:** Leadership Academy Honors Track - Skilled Trades/Apprenticeship Focus

**Award:** \$50,000

**Where:** Cumberland, Dauphin, Perry and Northern York Counties

**Overview:** This project seeks to connect 20 to 40 educators with four to six real-world learning experiences at employment sites of high need occupations in South Central Pennsylvania. Educators will assess and translate those opportunities to integrate their learning into new and existing lesson plans.

## South Central Workforce Development Board *(continued)*

**Grantee:** South Central Workforce Development Board

**Grant Title:** Leadership Academy Honors Track - Accounting/Business

**Award:** \$50,000

**Where:** Cumberland, Dauphin, Perry and Northern York Counties

**Overview:** This project seeks to connect 20 to 40 educators with four to six real-world learning experiences at employment sites of high need occupations in South Central Pennsylvania. Educators will assess and translate those opportunities to integrate their learning into new and existing lesson plans.

**Grantee:** South Central Workforce Development Board

**Grant Title:** Leadership Academy Honors Track – Health care

**Award:** \$50,000

**Where:** Cumberland, Dauphin, Perry and Northern York Counties

**Overview:** This project seeks to connect 20 to 40 educators with four to six real-world learning experiences at employment sites of high need occupations in South Central Pennsylvania. Educators will assess and translate those opportunities to integrate their learning into new and existing lesson plans.

**Grantee:** South Central Workforce Development Board

**Grant Title:** Leadership Academy Honors Track - Manufacturing

**Award:** \$50,000

**Where:** Cumberland, Dauphin, Perry and Northern York Counties

**Overview:** This project seeks to connect 20 to 40 educators with four to six real-world learning experiences at employment sites of high need occupations in South Central Pennsylvania. Educators will assess and translate those opportunities to integrate their learning into new and existing lesson plans.

**Project Update:** The Southcentral Workforce Development area is home to eight projects, half of which are well underway. In Franklin county, 24 teachers have partnered with manufacturing, local government and health care employers to learn more about their workplace needs. The Lancaster-Lebanon Intermediate Unit 13 project includes 23 middle school teachers, representing every school district in Lebanon County and Lebanon Catholic High School, and is beginning employer outreach. The Franklin County Chamber Foundation's effort is also underway, with teachers making one visit each marking period, with more than half of its 24 participants having finished their first visits. The remaining projects are building relationships with prospective partners, including: independent electrical contractors, Piedmont Airlines, Harrisburg International Airport, Ames True Temper, McClure Plumbing and Heating, Penn State Middletown, Homebuilders Association and the Manufacturer's Association.

## Southern Alleghenies Workforce Development Board

**Grantee:** Southern Alleghenies Workforce Development Board

**Grant Title:** Teacher in the Workplace

**Award:** \$40,000

**Where:** Blair County

**Overview:** The TIW project will connect administrators and teachers in the Tyrone Area School District with local businesses through a hands-on, interactive experience. Through a combination of background work, interviews, tours and on-site learning in the workplace environment, educators will bring relevant work experience into their individual classroom curriculum while integrating the PA CEW standards.

**Project Update:** The Tyrone Area School District has been conducting business tours. To date, 20 educators have completed three-hour visits to 17 employers. During visits, participants learned about and discussed job duties as they relate to employer needs and workforce requirements. The visits covered a wide variety of careers including some in food processing, health care, manufacturing, logistics and transportation, journalism and even mortuary science. Participants will use what they learned to inform curriculum development.

## Southwest Corner Workforce Development Board

**Grantee:** Southwest Corner Workforce Development Board

**Grant Title:** Southwest Corner/Trinity High School Teacher in the Workplace

**Award:** \$19,480.48

**Where:** Washington County

**Overview:** Trinity High School is a leader in career and college preparation, offering 22 advanced-placement courses and rigorous academics for all students, while offering opportunities for embedded real-world experience, including in marketing/promotions, fabrication and agriculture/horticulture. Beyond this, our teachers desire to best prepare our students for their life after K-12 education, which includes needing to have a comprehensive understanding of the skills required to obtain and retain employment over the course of a child's career. The program aligns to the career research, career acquisition and career retention and advancement strands of the CEW standards, through the orientation class, which will discuss the spectrum of careers within the employer and the skills required to obtain these jobs and the field experience which will allow teachers to be immersed with an employee who is able to discuss the ability to acquire new skills and advance within their given career.

**Project Update:** Trinity High School started activities with Presbyterian Senior Care Network. A dozen teachers have been placed with employers aligned to high-priority occupations or who routinely look for employees among recent high school graduates. Four of the 12 have already finished 30 to 36 hours of job shadowing, with the balance of their participated dedicated to curriculum planning.

## Three Rivers Workforce Development Board

**Grantee:** Three Rivers Workforce Development Board

**Grant Title:** Educators Corporations Partnership for STEM Learning (ECP)

**Award:** \$50,000

**Where:** Allegheny and Westmoreland Counties

**Overview:** The Allegheny Intermediate Unit Math and Science Collaborative (AIU MSC) in partnership with Partner4Work, Westmoreland/Fayette Workforce Development Board, the Collaborative for Evaluation and Assessment Capacity (CEAC) at the University of Pittsburgh, PPG Industries, Arconic, Aethon and the Eaton Corporation, will support up to 40 educators from five local school districts in a six-day, 42-hour educator corporate partnership: Educators Corporations Partnership for STEM Learning (ECP). ECP will emphasize STEM career readiness and aims to build sustainable partnerships between school districts and local corporations/businesses. ECP presents an opportunity for K-12 educators and STEM professionals to work together to develop an innovation in the curriculum that connects to the world beyond the classroom and provides students with experiences that are more directly transferable to career contexts.

**Grantee:** Three Rivers Workforce Development Board

**Grant Title:** Consortium of Teacher in the Workplace

**Award:** \$50,000

**Where:** Allegheny County

**Overview:** Participating school districts will send teams of educators that include teachers, counselors, principals, curriculum coordinators and central office staff including a superintendent to on-site experiences. Following the on-site experience, participants (educators and employers) reconvene for a working lunch and debriefing led by consortium staff. First, the educators meet with members from their districts to share what they have learned and experienced. They are encouraged to talk about how this can affect their classrooms and students. The consortium will then work with districts throughout the school year, offering at least two opportunities for on-site exploration, followed by continuing work with the schools and their staff to take what is learned and create new opportunities, lessons and curricula that affect students across grade levels and subjects. This long-term engagement in the work leads to greater effect and culture change that ensures success.

**Project Update:** Partners have recruited at least six employers in manufacturing, engineering, technology and power management. Four schools are confirmed participants, and partners are working to add more. The second of the grantee's two programs, Consortium of TIW, has secured participation from five businesses in energy production, technology, finance, and construction and is working to secure another from the health care sector. So far, the project has conducted its second and third worksite visit, with the second seeing 18 teachers from 10 schools visiting the NEP group, a STEM-focused communications system and teleservices company. The third visit saw 19 teachers from five school districts meet at Covestro, a multinational polymer-manufacturing company.

## Tri-County Workforce Development Board

**Grantee:** Tri-County Workforce Development Board

**Grant Title:** Tri-County Teacher in the Workplace Program

**Award:** \$50,000

**Where:** Armstrong, Butler and Indiana Counties

**Overview:** The TIW program will allow an educator to spend time in a business or industry environment working side by side with a professional in the field. The educators will learn a variety of occupations that need a variety of skills levels. The educators are then expected to incorporate this experiential learning into their work or classroom curriculum by using the information, techniques, skills and hands-on experiences gathered through their time with the employer. This project will enable educators to learn about local workforce needs, high priority occupations and skills needed in today's workforce. Additionally, businesses will gain a better understanding of what is being taught in the classroom and to have influence on the future curriculum.

**Grantee:** Tri-County Workforce Development Board

**Grant Title:** Educator Implementation of the Academic Standards for Career Education and Work in an Authentic Environment

**Award:** \$50,000

**Where:** Butler County

**Overview:** This project will provide train-the-trainer professional development on effective implementation of the CEW curriculum to a cohort of professionals in each school district in Butler County within the framework of the authentic STEM/Entrepreneurial learning environment of The Entrepreneurship Academy. Participants will train at The Entrepreneurship Academy at Butler County Community College, experience four on-site visits to important STEM/entrepreneurial hubs and increase awareness of local partnerships, business and resources. This will provide the background necessary to allow this cohort to train other teachers in their home districts and aid in district decision making regarding the most productive implementation of the CEW standards to enable students to acquire a solid foundation in career education and work.

**Grantee:** Tri-County Workforce Development Board

**Grant Title:** Teacher in the Workplace Armstrong and Indiana Counties

**Award:** \$49,960

**Where:** Armstrong and Indiana Counties

**Overview:** The TIW project requires a commitment of four days over the course of the 2018-2019 school year. Teachers engage in three face-to-face sessions with the facilitation team from ASSET Stem and one day on site with a workplace employer partner. Each teacher's experience will include a two-day project-based learning course, an overview of local labor market information with an emphasis on high-priority occupations and an overview of the CEW standards, prior to participating in an externship at a local business where there are high-priority occupations. On day four, teachers will attend a final session to report on their progress, reflect on their own learning and share how they've transformed their externship experience into project-based learning opportunities for students.

**Project Update:** In the first of the grantee's three projects, the local workforce development board, in partnership with Indiana Tech Center, is sending teachers from the school to regional health care providers – the Indiana Regional Medical Center and long-term care facilities. In the second project, ARIN Intermediate Unit 28 participants are wrapping up externships with local businesses. Midwestern IU 4, a partner in the third project, has scheduled three of four on-site workplace visits at four businesses: Penn United, Invention Land, Covestro and Adams Manufacturing. Thirteen teachers from two school districts will take what they've learned back to classrooms.

## West Central Workforce Development Board

**Grantee:** West Central Workforce Development Board

**Grant Title:** Teacher in the Workplace

**Award:** \$50,000

**Where:** Lawrence and Mercer Counties

**Overview:** This demonstration project seeks to place educators in a 40-hour TIW experiences consisting of one-on-one job shadowing with an employer host representative of the local targeted industries and in-demand career pathways. This supports the continued alignment of educational programs with the skills needed by local employers.

**Project Update:** While still recruiting participants (six teachers from two districts are participating so far), the project plans to serve 25 educators each with a 40-hour work experience. Twenty-eight of those hours will be on the worksite. So far, teachers have been placed in health care, building and construction, information and advanced manufacturing, and are working with companies to coordinate time for their job shadowing.

## Westmoreland/Fayette Workforce Development Board

**Grantee:** Westmoreland/Fayette Workforce Development Board

**Grant Title:** Fayette Future Workforce

**Award:** \$50,000

**Where:** Westmoreland and Fayette Counties

**Overview:** This project will create career connections between middle and high school teachers and companies within key priority career clusters (manufacturing and health care) through the development of one- to two-day lessons focused on career exploration and twenty-first century skills tied specifically to the Pennsylvania CEW standards. This project will serve 25 middle and high school teachers.

**Grantee:** Westmoreland/Fayette Workforce Development Board

**Grant Title:** Workforce Forum Pathway Learning Community

**Award:** \$50,000

**Where:** Westmoreland and Fayette Counties

**Overview:** This project will create a system for education professionals to have opportunities to experience and interact with local business and industry leaders that leads to developing career readiness learning, experiences and classroom instruction for students in the K-12 system. This project will support K-12 career awareness activities for students, teachers and parents by connecting 25 K-12 educators in Westmoreland and Fayette counties.

**Project Update:** The kick-off session for the Fayette Future Workforce TIW program was Sept. 28, 2018. Since then, 25 teachers from six districts and two CTCs enrolled and are participating in the program. Partner companies are engaged, and the participating teachers will receive 22 Act 48 credits for doing so. The project's foci are manufacturing and health care. It will wrap in February 2019, with a final session for participants to share experiences and outcomes. The Westmoreland TIW program is in planning stages, with an anticipated Feb. 1, 2019 start. Enrollment is open, with organizers already receiving interest from eight school districts and three Westmoreland County CTCs.









