PREPARE TO BE AMAZED!

Educational Workforce Programs 2017-2018

Science Technology Engineering Math

Sponsored by Vermilion Advantage Workforce Collaboratives
Acknowledgement

The Science, Technology, Engineering, and Math (STEM) educational workforce development programs offered through Vermilion Advantage are sponsored by the business members of Vermilion Advantage’s Workforce Network. Without their financial support and employee volunteers these programs would not be available to the thousands of students of Vermilion County, Illinois.
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STEM WORKFORCE FOCUS

What is a STEM career? Why is it important to workforce development? These are common questions asked by both students and adults thinking about future careers or job changes. A STEM career is any career enabled by science, technology, engineering, or math may be a STEM career; it is the technician working with algebra in his/her water resources field work, just as it’s the doctoral-level bio-tech researcher.

Just as the STEM acronym may not be readily recognized by many employers and workers, STEM-career awareness is key to ensuring the right leaders and partners are both engaged and benefiting. The workforce clusters of Vermilion County are actively addressing the shortage of students entering STEM-based careers by providing educational enhancement programs to students as early as elementary school and continuing into post-secondary technical internship opportunities.

What companies make up the workforce clusters? There are currently five workforce cluster groups. The groups are education, healthcare, logistics, manufacturing, and technical services. Each cluster is comprised of businesses in Vermilion County who have an invested interest in enhancing Vermilion County’s future workforce. As business leaders they have a sense of responsibility to assist in helping Vermilion County’s future workforce. As business leaders they have a sense of responsibility to assist in helping students learn how to apply academic principals by providing resources – such as guest instructors, student internships, and programs focusing math, science, engineering, technology, career exploration and awareness. In addition to being a member of Vermilion Advantage, the workforce clusters support such programs and activities through additional financial contributions which are then offered to Vermilion County schools at no charge. Science, technology, engineering or math impacts each of the individual business in some form.

STEM project-based learning opportunities are more costly and time-consuming and therefore, not included in “standard” instruction. This could take the form of mobile engineering laboratories, engineering competitions or workplace learning opportunities. STEM-based programs are not just for the advanced students or a limited population; the programs focus on preparing all students for post-secondary training and work. The workforce clusters focus on the entire talent supply chain. It is important students are introduced to math and science at an early development age in order to develop the foundation for more advanced programs as they advance further in their education.

As a group, all cluster members speak with a single voice to community and education to address only common needs identified by workforce data collection. The STEM-based programs offered to K-16 students develop a system to feed the STEM-pipeline and are not a group of disjoined programs. Since 1998, members of the workforce clusters have changed, but the goal has stayed the same. Understanding the dynamics of changing skill needs and opportunities, providing long-term and short-term educational foundations in STEM careers, gathering technology, demographics and job project needs are key tools that aid in implementing systematic changes to respond to current and anticipated workforce challenges in the county. Active participation in the process of change is the key to meeting the county’s workforce challenges. It takes businesses, school districts, community agencies, parents and students working together - creating the future.
### 2016-2017 School Participation

<table>
<thead>
<tr>
<th>School</th>
<th>GTT</th>
<th>Career Lab</th>
<th>Choices</th>
<th>PLTW</th>
<th>Ind Tech</th>
<th>Logistics</th>
<th>CSI Scholars</th>
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<td>Salt Fork</td>
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#### HIGH SCHOOLS

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<th>Career Lab</th>
<th>Choices</th>
<th>PLTW</th>
<th>Ind Tech</th>
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<th>CSI Scholars</th>
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<td>Oakwood High School</td>
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| TOTAL SCHOOLS                   | 5   | 12         | 12      | 6    | 7        |           |              |
| TOTAL YOUTH PARTICIPATION       | 1316| 789        | 789     | 8    | 19       |           |              |
Stemmy is a robot designed from products manufactured right here in Vermilion County, IL. Science, technology, engineering and math are involved in the production of these products. Can you identify them? There are 10 companies represented.

Company Names

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. 

Meet STEMMY!
<table>
<thead>
<tr>
<th>Company</th>
<th>Body Part</th>
<th>Products Manufactured</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arconic</td>
<td>Body made from aluminum</td>
<td>Alcoa is the world’s leading integrated aluminum company, providing jobs to 61,000 employees across 31 countries. Since inventing the modern-day aluminum industry more than 120 years ago, Alcoa innovation has been behind major milestones in the aerospace, automotive, packaging, building and construction, commercial transportation, consumer electronics and industrial markets. Aluminum is infinitely recyclable and 75% of all aluminum ever produced is still in use today.</td>
</tr>
<tr>
<td>Bunge</td>
<td>Head</td>
<td>Bunge North America was established in New York City in 1923 and employs more than 4,000 people in six businesses throughout the United States, Canada and Mexico. BUNGE MILLING is a primary supplier to the top food manufacturers in North America and the leading corn dryer miller in the world. It is a primary supplier to the top food manufacturers in North America. Think about your favorite breakfast items and snacks. There’s a good chance they got their start at Bunge Milling.</td>
</tr>
<tr>
<td>Danville Metal Stamping Co., Inc.</td>
<td>Hip Joints</td>
<td>Originated in 1946 and incorporated in 1948, Danville Metal Stamping Co., Inc., has grown from a three-person shop producing straightforward stampings to a 450-person company producing a variety of metal components for the aerospace and gas turbine industries. Companies such as Pratt &amp; Whitney, General Electric, Honeywell, Hamilton Sundstrand, Siemens Westinghouse, and Rolls-Royce depend upon Danville Metal for a variety of gas turbine and aerospace hardware.</td>
</tr>
<tr>
<td>Envirox LLC</td>
<td>Belt</td>
<td>Envirox LLC was started in 1995 as a research project with the primary objective of developing a cleaning technology that would reduce toxicity in a meaningful way. As a secondary objective, the company wanted to reduce the use of packaging materials, energy, and landfill space by performing all or most of the general janitorial cleaning tasks with one, concentrated product.</td>
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<tr>
<td>Fiberteq</td>
<td>Legs</td>
<td>Fiberteq is a world class manufacturer of glass fiber mat used in the roofing industry. Established in 2000 with a joint venture between IKO and Owens Corning. Fiberteq uses the latest wet-chopped glass fiber technology to manufacture a high-quality wet-formed glass fiber mat used in the production of roofing shingles.</td>
</tr>
<tr>
<td>FreightCar America</td>
<td>Feet</td>
<td>Freightcar America is the home of the aluminum railcar, proud of its heritage of building and designing railcars. FreightCar America has been manufacturing quality railcars since 1901. The generations of employees responsible for creating its reputation for quality have made Freightcar America the largest North American manufacturer of aluminum railroad freight cars used to haul coal. Freightcar America now uses its design knowledge, enhanced production facilities, and unequaled experience in aluminum railcar building to expand its product line and provide cost benefits to customers.</td>
</tr>
<tr>
<td>FullFill Industries, LLC</td>
<td>Jet Pack</td>
<td>In 1999, four members of the Clapp Family had an idea for a manufacturing company in a tiny Illinois town. More than a dozen years later, Full-Fill Industries’ employees now blend modern technology with time-proven industry practice to make full-Fill Industries a leading manufacturer of cooling oil sprays for major consumer and private brand customers and foodservice operators.</td>
</tr>
<tr>
<td>KIK Custom Products</td>
<td>Jet Pack</td>
<td>The KIK story began in 1995 as one manufacturing facility and 100 employees in Concord, Ontario. By the time the Company went public in 2002, it had expanded to include 11 manufacturing facilities totaling 1.3 million square feet, employing over 700 people and producing more than 1,500 products expanding its product offerings to include dish detergents, window cleaners, all-purpose cleaners and more. KIK is a leading supplier of private label bleach and cleaning products with over 80% of North America’s largest retailers on its customer list.</td>
</tr>
<tr>
<td>ThyssenKrupp</td>
<td>Shoulders and Knees</td>
<td>Thyssenkrupp is a diversified industrial group. It has around 180,000 employees in over 80 countries developing ideas and innovations into solutions for sustainable progress. For us innovations and technical progress are key factors in managing global growth and using finite resources in a sustainable way. With our engineering expertise in the areas of “Material”, “Mechanical” and “Plant”, we enable our customers to gain an edge in the global market and manufacture innovative products in a cost and resource efficient way.</td>
</tr>
<tr>
<td>Watchfire</td>
<td>Nameplate</td>
<td>In 1933, Watchfire proudly put up its first sign - leading innovations like the Time and Temperature signs that became landmarks across the nation as Time-O-Matic. Now 80 years later, we are still on the cutting edge of technology as a leading LED sign manufacturer and LED digital billboards that are rapidly becoming the future landmarks. Watchfire continues growing in every direction, with Danville on-site teams in electronics assembly, accounting, mechatronic assembly, technical helpdesk, electrical/software/mechanical/industrial engineering, I.T., sales, and more. In 2012, Watchfire is making another massive move to expand their headquarters in Danville, Illinois.</td>
</tr>
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CHARACTER COUNTS!

A nationally-recognized character and ethics development initiative. The program is based on the six pillars of character: Trustworthiness, Respect, Responsibility, Fairness, Caring and Citizenship. Volunteers come to the classroom with stories and activities to bring the pillar of the month to life.

Training workshops are also available for teachers and volunteers on how to provide interactive presentation and hands-on activities to promote positive character building for students of all ages.

The CHARACTER COUNTS! Program can be a part of the PBIS program offered in the school districts to promote positive behavior interventions. Vermilion Advantage is a coalition member of the national organization who can provide discounts to school districts wanting to purchase classroom curriculum and supplies for students.

Contact Kim Kuchenbrod at kkuchenbrod@vermilionadvantage.com or call (217) 442-6201 to arrange for a workshop presentation or to purchase classroom materials.
Change your attitude is the right path towards future success!
GATEWAY TO TECHNOLOGY-GTT
Middle School Program

PLTW's middle school program, Gateway To Technology (GTT), is an activities-oriented program designed to challenge and engage the natural curiosity and imagination of middle school students. Starting our third year of the program, it is currently offered at Bismarck-Henning, Jamaica, Oakwood, Schlarman Academy and Westville schools. Taught in conjunction with a rigorous academic curriculum, the program is divided into six independent, nine-week units:

- **Design and Modeling** - Students use solid modeling software (a sophisticated mathematical technique for representing solid objects) as part of the design process. Utilizing this design approach, students understand how design influences their lives. Students also learn sketching techniques and use descriptive geometry as a component of design, measurement and computer modeling. Students brainstorm, research, develop ideas, create models, test and evaluate design ideas and communicate solutions.

- **Automation and Robotics** - Students trace the history, development, and influence of automation and robotics. They learn about mechanical systems, energy transfer, machine automation and computer control systems. Students acquire knowledge and skills in problem solving, teamwork collaboration and innovation.

- **Science of Technology** - Students trace how science has affected technology throughout history and learn about applied physics, chemical engineering and nanotechnology through exploratory activities and projects.

- **Magic of Electrons**—Through hands-on projects, students explore the science of electricity, the behavior and parts of atoms, circuit design and sensing devices. Students acquire knowledge and skills in basic circuitry design and explore the impact of electricity on their lives.

Grade Level: 6-8th Currently offered at Bismarck, North Ridge, Oakwood, Potomac, Salt Fork, Schlarman Academy
STEM-mania Invasion!
CAREER EXPLORATION LABORATORY

Students are guaranteed to enjoy the 5-hour program that includes hands-on career awareness activities using activity-based workstations, cruising the internet to explore career interests, and learning about how choices can provide building blocks to their future. A great program prior to entering high school. All the information you need about the program is listed below. Once you have scheduled your class field day, an entire information packet will be sent to you. Program is also available to high school students, youth organizations, and adult learners.

| Career Cruising | Students log into Career Cruising to explore required educational and training needed for the career interests. Students are able to plan their high school course selection based on their interests. |
| Choices | Students participate in an interactive decision-making session empowering teens to achieve academic success in pursuit of their career and life aspirations. |

Grade Level: 8th, 10th and adult learners
CHOICES helps kids see through their own eyes how their decisions today determine the sort of life they’ll have as adults. These “aha” moments, when they really get it, stick with them.

In the CHOICES Challenge exercise, the presenter asks student volunteers to consider a series of real-life alternatives, such as whether to attend a basketball game or stay home to study. The students discover that not only might they pass or fail a test depending on their decision, but that the consequences form one simple choice, or a series of choices, that could affect them for the rest of their lives. More importantly, they learn they can anticipate the possible result of their decisions before they make them.

CHOICES also makes a compelling case for the way education—or the lack of it—affects a person’s options. During another exercise, three students play the roles of a high school dropout, a high school graduate, and a person with education beyond high school. The rest of the class pretend to be an “employment agency”, trying to match the students with available jobs. All the students quickly see how many more job options are available to those with a higher level of education.

After completing CHOICES, kids consistently say they understand how even little decisions early in life have long term consequences for themselves and others.

Source: www.choices.org
ccInspire will be an additional component of Career Cruising that is currently being offered to all public schools in Vermilion County beginning with the 2015-2016 school year. We’re creating a more vital workforce throughout Vermilion County by bringing education and industry together in one place. ccInspire helps students discover careers that inspire them, by connecting with local companies offering career development opportunities like job shadows, internships and company tours. Employers nourish their talent pipeline by providing content, mentoring and sharing valuable knowledge with local students. Below are just a few of the benefits ccInspire offers to K-14 students in the area.

Real resources for students
ccInspire doesn’t just inform students about real careers and what it takes to succeed in the real world. It inspires students by bringing the real world right into the classroom and integrating real employers into the curriculum in powerfully motivating ways. It’s more interactive, dynamic and engaging than any other career development program.

Talent pipeline for employers
Employers have told us that they are always looking for more effective ways to reach out to students and forge new connections. ccInspire is the answer. It gives employers a unique opportunity to begin mutually rewarding relationships with students that could last a lifetime. It puts real companies front and center in the classroom, where they can be a positive influence by educating students about the kind of talent and education they look for when they are hiring. Students say this is exciting and motivating.

Loved by educators and administrators
Educators report that ccInspire is a tremendously effective organizer and enabler in their efforts to teach students about careers. It saves local schools and larger districts time and money, because it is an integrated central coordinator of their activities. It makes learning real by bringing employers and students together. That’s why ccInspire is the most efficient and most effective way to motivate students to work harder in the classroom, so they can acquire the education and skills employers need.

Regional prosperity engine
ccInspire is more than a gateway for students to the world of work. It’s more than a portal for employers who see the value in nourishing their future talent pool. ccInspire is an engine of prosperity for local communities and entire regions. By connecting employers with students through regional implementations across the country, it is helping to prevent ‘brain drain’. Students are less likely to
Vermilion Advantage

SCIENCE

TECHNOLOGY

MATH

ENGINEERING
PROJECT LEAD THE WAY—PLTW

High School Program

A national program founded in response to declining enrollments in engineering programs. PLTW creates partnerships with school districts to prepare an increasing and more diverse group of students to be successful in engineering and engineering technology programs.

Foundation Courses

- **Introduction to Engineering Design (IED)** - Expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. Students use 3D solid modeling design software to help them design solutions to solve proposed problems.

- **Principles of Engineering (POE)** - This survey course of engineering exposes students to major concepts they’ll encounter in a postsecondary engineering course of study. Students employ engineering and scientific concepts in the solution of engineering design problems. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, documenting their work and communicating solutions to peers and members of the professional community.

- **Digital Electronics (DE)** - The major focus of the DE course is to expose students to the process of combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation.

- **Computer Integrated Manufacturing (CIM)** - Students learn about the history of manufacturing, a sampling of manufacturing processes, robotics and automation. The course is built around several key concepts: computer modeling, Computer Numeric Control (CNC) equipment, Computer Aided Manufacturing (CAM) software, robotics and flexible manufacturing systems.

**DUAL CREDIT COURSES**

- Grade Level: 9th-12th Danville High School
- 11th-12th county high schools

For Program Scheduling Call: 800-373-6201
**About the Course**

Students will be introduced to the key concepts involved in manufacturing innovation and will have an opportunity to interact with local employers. Students will engage in hands-on and applied learning that includes: precision measuring, blueprint reading, safety (including hazardous material handling), quality, basic manufacturing processes, “soft” skills, and mathematics. Students will explore the various roles of employees with manufacturing companies. Students will benefit from many guest speakers from business and industry, and will tour at least four local manufacturing companies.

**Requirements**

- Junior or Senior in High School
- Program Application completed
- (available through HS counselors)
- Ability to pass drug screen
- Algebra and Geometry 1 (completed or enrolled currently with grade “C” or better)
- Complete Workkeys Assessment at DACC
- Interview with program directors

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**Industrial Technology Specialist Program**

**High School Students**

Students are Guaranteed*:

- 5 College Credit Hours which can be used towards a degree or production technician certification
- Paid Summer Internship
- OHSA Certification (with 70% or higher on module assessments)
- Industrial Technology Simulation Training
- Preparation for Immediate Employment
- Priority Consideration for available positions and/or can choose to continue their education to specialize in the Industrial Technology Field:
  - Electronics
  - Machining
  - Mechanical Maintenance
  - Food Handling and Production
  - Welding
Global Careers and Professionals (GCP) Program

Do not wait for life to happen to you; plan for your future. Ask yourself these questions: “What do I like to do? What are my interests?”

Answering these questions for many high school students is not an easy task, but if they want to be satisfied and productive in whatever career path they choose to follow, it is something that each student must confront.

Through a collaborative effort between the Global Careers and Professions (GCP) Program and the Guidance Counselors, all of our students and their parents will have an opportunity to have all of these and many more questions answered. GCP provides opportunities for:

- Gaining insight into a career matching his or her interest.
- Receiving up-to-date career information on a wide range of careers.
- Learning about the employability skills that will be needed in order to qualify for and succeed in a career.
- Learning about the educational requirements needed for a specific career.

Grade Level: 11-12th grade students
SCIENCE SUMMER CAMPS
SUMMER 2018

It’s electrifying!

It’s STEMulating!

It’s scientifically fun!

Summer camps are available for students in grades 1st through 6th grade. Get ready to roll up your sleeves and perform experiments with the professors!

Summer camps will begin in July 2018. Contact Kim Kuchenbrod for more details at 442-6201.
Vermilion Advantage is partnering with local school districts to provide career service information support, career readiness skills, and youth employment opportunities for teens 16-24 years old.

Local employers list current part-time employment and internship opportunities for teens 16-24 years of age. Non-profit agencies list service opportunities for youth seeking volunteer activities.

The Career Service Center provides youth improve student focus and achievement by identifying career interests and related academic achievement/course enrollment/technical education to meet that end goal.

Career Advisors acquaint students with career opportunities that align with their career interests and local opportunities present in those career fields, conduct a career awareness workshop/assembly monthly with local businesses coming into schools to showcase career opportunities and qualifications therefore in their field.

Identify both mid-year and year-end graduates who plan to go directly into the workforce and assist with filling local job needs while helping students build a resume and identify additional post-secondary training required to reach their goals.

Check back frequently to explore all of your career opportunities in Vermilion County.

Explore our site and see how Vermilion County is Getting Technical...with Endless Possibilities!

https://www.vermilionadvantage.com/youth-job-board
https://www.vermilionadvantage.com/job-board

Vermilion County’s electronic resource for career and occupational opportunities, employer profiles and career information provides individuals the opportunity to apply for current job offers with some of the post popular employers in East Central Illinois.

Employers who post career opportunities on the site have broadened their company’s exposure and reduced time and effort in locating the best person for the position.

Additional information available to the individual during their career search includes local company profiles, annual job projection needs assessment and educational/training resources. New opportunities are posted on a daily basis. Check back frequently to explore all of your career opportunities in Vermilion County.

Explore our site and see how Vermilion County is Getting Technical...with Endless Possibilities!
Back by popular demand, major companies in Vermilion County Illinois open their doors for a special one day, behind-the-scenes look. People throughout East Central Illinois and the Midwest region travel near and far to take a peak inside the companies. The Vermilion County Tour of Industries is hosted by Vermilion Advantage. Tour participants may register to win prizes, learn about the companies and receive information about immediate job openings.

“Thank you for giving the community this amazing opportunity. I can’t wait until next year to visit more companies”

“It was a great tour, and the friendliness of the employees was impressive. A lot of hard work went in at each facility to make this event happen…”
CLUSTER MEMBERS

MANUFACTURING CLUSTER
Arconic
Automation International, Inc.
Bunge Milling, Inc.
Danville Metal Stamping Co., Inc.
Danville NECA-IBEW Electrical JATC
Dines Machine & Manufacturing
DynaChem, Inc.
EnvirOx, LLC
Fiberteq, LLC
GPI/Trigard
KIK Custom Products
Leatherneck Hardware, Inc.
Masterguard
Mervis Industries, Inc.
Quaker Oats
ThyssenKrupp Crankshaft Co.
ThyssenKrupp Presta Danville, LLC
Towne Machine & Tool Co.
Tridan International, Inc.
Viscofan USA, Inc.
Watchfire Signs

LOGISTICS CLUSTER
AutoZone Distribution
Central States Distribution Services
Dawson Logistics
Mclane Midwest Co., Inc.
Mervis Industries
Hyster-Yale
The Sygma Network

TECHNOLOGY\SERVICES CLUSTER
Blue Cross Blue Shield of Illinois
City of Danville
DND Witzel Enterprises dba McDonald’s
First Midwest Bank
Genpact
Iroquois Federal
Media One Visual Arts
Neuhoff Family Broadcasting
Walgreen’s Accounting Center
Woodards’ Computing Services

HEALTHCARE CLUSTER
Carle Physician Group
Christie Clinic Management, Co., Inc.
Danville Polyclinic, Ltd.
Presence United Samaritans Medical Center
Randal Ashton, DDS
Vermilion County Health Department
Veterans Affairs Illiana Health Care System

EDUCATION CLUSTER
Armstrong-Ellis District 61
Armstrong Township District 225
Bismarck-Henning District 1
Danville District 118
Georgetown-Ridge Farm District 4
Hoopeston District 11
Oakwood District 76
Potomac District 10
Rossville-Alvin District 7
Salt Fork District 512
Westville District 2

For Program Scheduling Call: 800-373-6201
“The GTT program made me realize the importance of respecting other student ideas. We had to work as a team to accomplish our projects. This is the coolest class in school.”—Jamaica Jr. High student.

“Fantastic Program and an eye-opener for students! Career Exploration Day is well planned and informative day for 8th grade students. Everyone does an excellent job of introducing the day together. Students are introduced to the importance of careers and future educational opportunities. Thank you!—Westville Jr. High staff.

“The Industrial Tech Specialist Program provided endless possibilities for me. I would love to be a spokesperson for this program.” - AJ Gandenberger

Global Careers and Professions (GCP) was the best class I took in high school. I learned so much from my internship, classroom projects and developed great mentors to help guide me through my post-secondary education. I will never forget this experience! It was invaluable! - Danville High School senior student.

To learn how to become a program volunteer or business cluster member to support the Educational Workforce Development Programs contact:

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