Programs to Develop 21st Century Talent

Pathways to STEM Based Careers Project Lead the Way

I-STEM Resource Network Feedback Loop New Tech High

White County Instructional Center Maturity Matters

State of the Workforce Report and Roll Out Project Complete

Manufacturing Skill Standards Certificate Indiana InternNet

Guitar Manufacturing Camp REACH Centers

Tri County High School Alternative Energy Program

Sustainable Agriculture Workforce Development Survey

Western Indiana Sustainable Energy Resources

Retraining Indiana Construction Workers for Road and Bridge Construction

Future of Conventional and Renewable Electrical Energy



ALTERNATIVE ENERGY AT TRI COUNTY HIGH SCHOOL WOLCOTT, IN



Their motto states:

"One of the smallest, striving to be the best"

Tri County High School developed an alternative energy curricula and built a wind turbine.

Tri County High School Receives Grant for Wind and Solar

Vision and perseverance are paying off for Tri-County schools and students. They received grants to install solar panels and a 65 foot windmill at the high school that are now in operation.

The new equipment is being used as both educational tools in the fields of science, math and agronomy as well as offsetting the energy costs at the school. The windmill alone offsets approximately 1/10th of the school's energy use. The following training opportunities were created during the process:

105 Students Trained10 Teachers Trained9 New Curricula

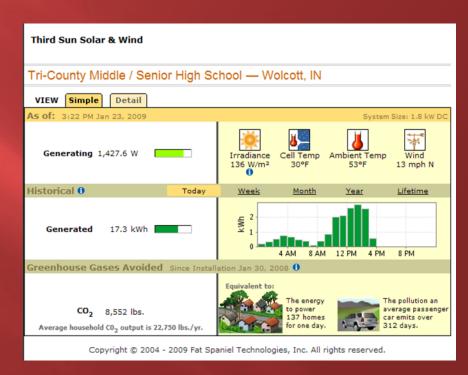
Tracking the Energy Generated

A company experienced in setting up alternative energy arrays for educational, residential, and business applications and gave technical support throughout the construction process.*

The output varies from month to month depending on outside conditions.

Tri County is currently in a wind corridor that can be expected to produce winds between 12 and 15 mph at heights of 50 meters. The system is expected to perform on the high end of the curve for the majority of calendar days.

*Third Sun Solar and Wind Power, Ltd



There is constant tracking on the school website.

<u>Energy Tracker Website</u>

(website not supported by WIRED funding and included here for information purposes only.)

PURDUE UNIVERSITY

College of Technology

Advanced Manufacturing Summer Camp

GUITAR WORKSHOP

Pssst. Hey, kid.

Wanna spend your summer vacation learning about advanced manufacturing?

NO?

How about 10-hour days doing math and science?

Didn't think so.

Ok, then, how does guitar fantasy camp sound?



Advanced Manufacturing Summer Camp Guitar Workshop 2008

17 students from the region learned advanced manufacturing skills while making their own guitar.



This program was so successful, it is now being "kitted" so other schools and more students can have the same advanced manufacturing experience.





Workforce Innovation in Regional Economic Development
TALENT DRIVING PROSPERITY

Manufacturing Skill Standard Council certificates

'the gold standard in portable manufacturing certificates'

360 – Individuals beginning training

248 - Completed training

174 - Received Certificates





Prepare businesses for the demographic reality of the mature workforce

Promoting skill development in mature and aging workers

Create learning opportunities to support employment of older workers

* Thousands of hits on the Lifelong Learning Systems website

* 7 Workshops conducted with employers impacting 6400 employees





New Tech High

A New Kind of Workforce Model Drives a New Kind of Education

An experiment in education that answered the question:

Can a more or less typical high school in rural Indiana that graduates only about 79% of its students be transformed into a training ground for America's 21st Century workforce?



New Tech High (Rochester, IN)

Based on the successful New Tech High in Napa, California, Rochester refashioned its entire freshman class curriculum into a New Tech model that is projects oriented and technologically-enabled, with an emphasis on the STEM subjects of Science, Technology, Engineering and Math.

It's a new kind of education designed to promote the kind of "soft skills today's employers are demanding, such as collaboration, teamwork, independent thinking, listening and knowing how to analyze and communicate complex issues.

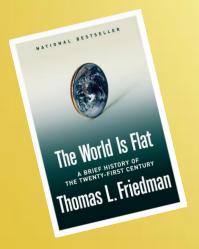
Connecting the Dots between Education and Economic Development

See more about the Rochester High School Transformation to New Tech High:

http://www.youtube.com/New Tech High

What employers are seeking:





A CHANGING WORKPLACE

Students Now Compete in a Global Environment

To Earn A Living Wage, Our Students Will Need to Use Their Heads



ZEBRA NEW TECH HIGH LEARNING OUTCOMES

- TECHNOLOGY LITERACY
- COLLABORATION
- CRITICAL THINKING
- ORAL COMMUNICATION
- WRITTEN COMMUNICATION
- CAREER PREPARATION
- CITIZENSHIP AND ETHICS
- CURRICULAR LITERACY (CONTENT STANDARDS)



New Tech High (Rochester, IN)

The objectives of Rochester's New Tech High are to realize an increase in high school attendance, graduation, enrollment and completion of post-secondary degrees along with an increase in academic achievement and the retention of a skilled and educated workforce.

According to Rochester Superintendent,
Student engagement 'has exploded' with more
involvement, less absenteeism and fewer
disciplinary actions needed.



The Results



3rd year of enrollment

592 – Students enrolled (97%)

23 – Teachers trained in STEM

16 – Teachers trained by NTH foundation

Rochester is Gaining National Attention for their efforts and willingness to share what they've learned.

It was the first to fullyimplement NTH in the State of Indiana and the Nation.

500 – Individuals toured NTH





PATHWAYS TO STEM BASED CAREERS:

PATHWAYS TO STEM BASED CAREERS

Supporting Employers in the rapidly changing world of manufacturing technology

- •Fill the worker pipeline with appropriately skilled individuals
- Keep incumbent workers' skills up to date
- An Emerging Sustainable Energy field



EMERGING AND INCUMBENT WORKERS:

- Summer Technical Middle College
 - + Advanced Manufacturing with MSSC Certification
- * 'Double UP' (or early college) programs
 - + Allows students to take classes on campus
- Internships for both Faculty and Students
 - + To provide relevant work experience
- Scholarships provided to incumbent and dislocated workers in Advanced Technology

SUSTAINABLE ENERGY

A new Associates in Applied Science degree in Sustainable Energy:

Ivy Tech became the first college or university in Indiana to have such a program. The Lafayette campus will offer the course first and the new curriculum will rapidly extend to other Ivy Tech Locations in the State.

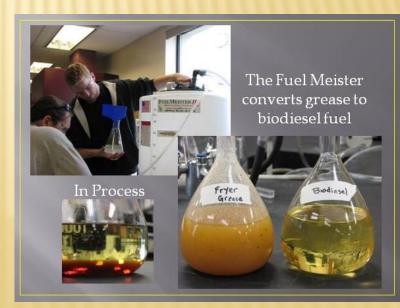
~50 Students have declared Sustainable Energy as their major.

BUILDING CAPACITY

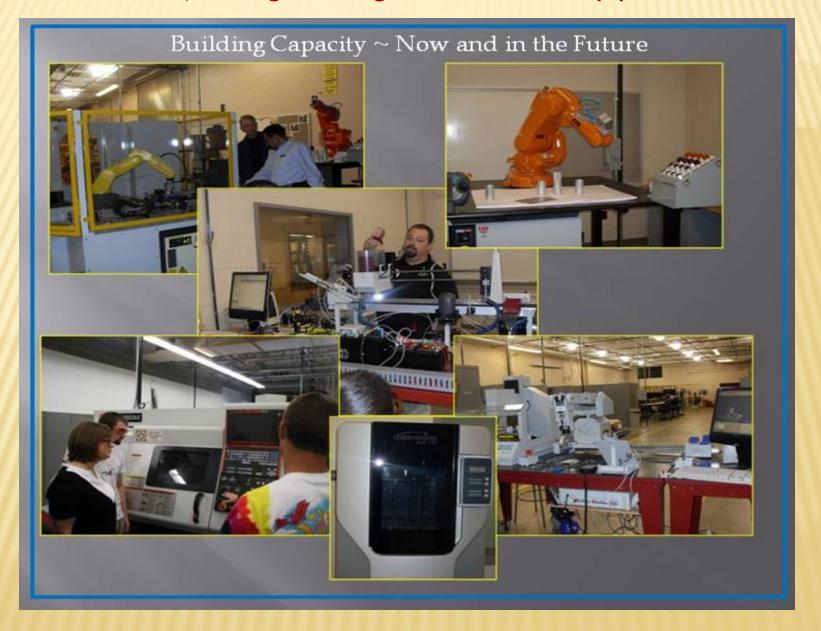
Instructors have been added through the grant and many of these positions will be sustained after the WIRED grant.

Specialized state-of-the art

Advanced Manufacturing equipment has been purchased that will enhance learning and prepare students for new opportunities.



Flexible Advanced Manufacturing System, Design Prototype 3D Modeling System for CAD, a Turning and Milling Center and Robotics equipment.



Two Fanuc LR-Mate 200iC Robots, one with a vision package and one with welding, and Vision software for the robotics lab.

2 Haas GT-10 CNC Lathes with tooling.

2 Haas Mini Vertical Milling Centers with tooling.

AMATROL AC/DC Electrical with virtual simulation software and lab manuals.

Kokomo



Results and Sustainability:

~3000 Students have participated in various programs as part of the Pathways grant with thousands more to benefit from the specialized equipment in years to come.

Additional Ivy Tech programs to build 21st Century Talent:

Ivy Tech Kokomo – Logansport Industrial Welding Certification

This grant worked to identify specific welding competencies needed by our industry partners to develop training programs and certification options for emerging workers and incumbent workers. These competencies will be added to our training options offered at the new welding lab on the Ivy Tech Logansport campus.

Ivy Tech Lafayette – Battery Technician and Vehicle Tech Training Program



With this WIRED-funded initiative designed to increase capacity in this new field, the BTEVP program allowed Ivy Tech to develop new electric vehicle courses that will lead to a certificate degree and that has now been approved by the Automotive Program Statewide Curriculum Committee and the Regional Academic Officer's Committee (RAOC).





Project Complete

Helping college "Stop-outs" attain their degree.

Indiana University Kokomo





The Scholarships

Project Complete Scholarships were offered to former IU or Ivy Tech students, "stop outs" within the WIRED region.

Offers were to all former IU students who had at least 90 credits and at least a 2.50 GPA. Awards were for \$500 per semester for up to four semesters to complete a first bachelor degree.

Similar offers were made to Ivy Tech students to work towards an associates degree.

At IU K 16 students enrolled in courses after initially accepting the scholarship. Ten students persisted and 3 degrees have been issued.

An additional 33 students contacted Ivy Tech to participate with 11 students enrolling and 2 degrees issued.

Results are pending as individuals are encouraged to continue in the quest for a degree.



Connecting the Dots between Education and Economic Development





For more information about the Indiana WIRED Project Lead the Way initiative, visit this site:

http://www.youtube.com/PLTW

THE ISSUE & A SOLUTION

Issue:

Insufficient number of students with strong preparation in science, technology, engineering, and math (STEM) education at the K-12 through all levels of post secondary education to compete in a technology driven global economy.

Solution:

A nationally recognized pre-engineering and engineering technology program called **Project Lead The Way**.

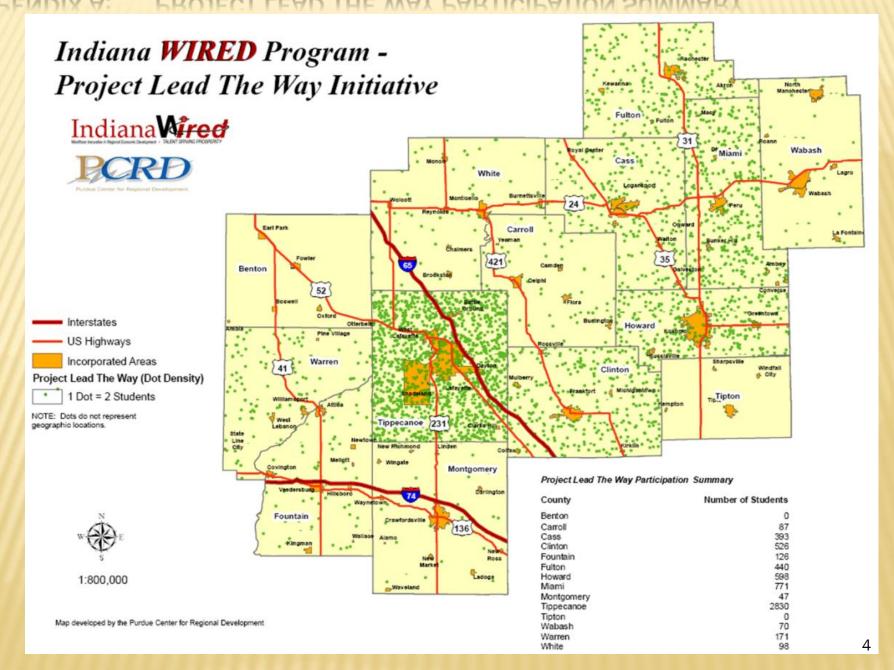
NCI WIRED, representing 14 counties in North Central Indiana, increased the number of PLTW schools from 21 to 56 — a 167% increase with over 13,000 students enrolled through school year 2009-2010.

Indiana now leads the nation in the number of Project Lead The Way schools.

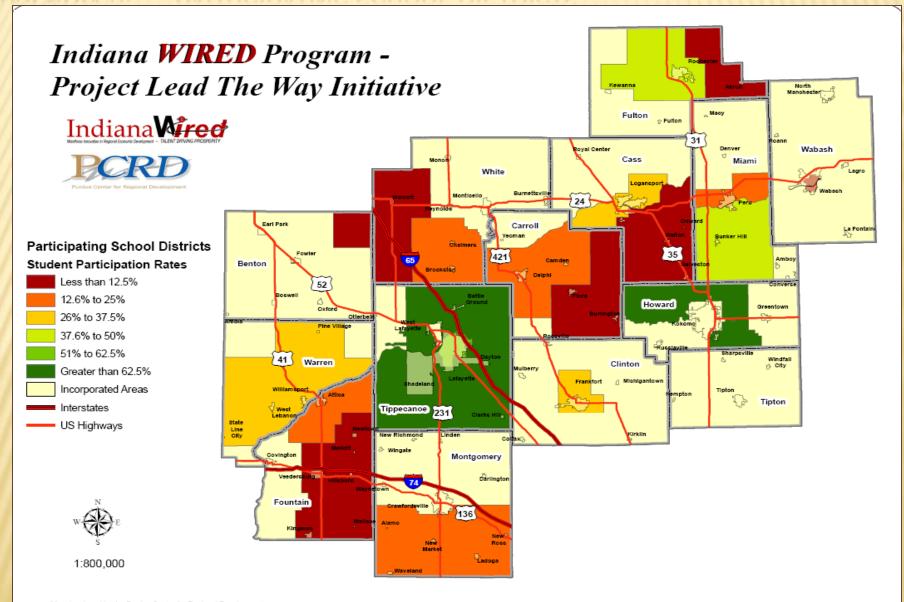
NCI WIRED GRANT OPPORTUNITY

- 1. A \$15,000 incentive grant to implement Project Lead The Way made available to every High School and Middle School in the NCI WIRED region.
- 2. A \$20,000 incentive grant to High Schools currently offering Project Lead The Way for adding Computer Integrated Manufacturing to their curriculum.
- 3. Assistance with Teacher training.

APPENDIX A: PROJECT LEAD THE WAY PARTICIPATION SUMMARY



APPENDIX B: PARTICIPATING SCHOOL DISTRICTS



Map developed by the Purdue Center for Regional Development

PLTW SCHOOLS:

PLTW SCHOOLS BEFORE 2007 WIRED GRANT

School Name	County
Bon Air Middle School	Howard
Carroll High School	Carroll
Central Middle School	Howard
Century Career Center/Logansport HS	Cass
Crawfordsville High School	Montgomery
Delphi Community High School	Carroll
Eastern High School	Howard
William Henry Harrison High School	Tippecanoe
Kokomo Area Career Center /	
Kokomo High School	Howard
Lafayette Jefferson High School	Tippecanoe
Lafayette Park Middle School	Howard
Maple Crest Middle School	Howard
McCutcheon High School	Tippecanoe
North Montgomery High School	Montgomery
Northridge Middle School	Montgomery
Roosevelt Middle School Monticello	White
Rossville High School	Clinton
Southmont High School	Montgomery
Southwestern MS	Tippecanoe
Tri-County Middle School	White
Twin Lakes High School	White

36 PLTW SCHOOLS ADDED THROUGH WIRED GRANT

Attica High School Attica Junior High School Fountain Carroll Jr. High School Frankfort High School Clinton Frankfort Middle School Clinton Delphi Middle School Carroll Frontier High School Frontier High School White Frontier Junior High School Cass Lincoln Middle School Cass Lincoln Middle School Maconaquah High School Maconaquah Middle School Seeger High School Warren Seeger Jr. High School Northwestern Middle School Miami Peru Jr. High School Miami Rochester Community High School Fountain Rochester Community Jr. High School Fountain Fountain Central Jr. High School Cass Fountain	School Name	County
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East Tipp Middle School Tippecanoe	East Tipp Middle School	Tippecanoe
Klondike Middle School Tippecanoe	Klondike Middle School	Tippecanoe
Wainwright Middle School Tippecanoe	Wainwright Middle School	Tippecanoe
Wea Ridge Middle School Tippecanoe	Wea Ridge Middle School	Tippecanoe
Tippecanoe Valley High School Kosciusko	Tippecanoe Valley High School	Kosciusko
Tri-County High School White	Tri-County High School	White
Wabash High School Wabash	Wabash High School	Wabash
Wabash Middle School Wabash	Wabash Middle School	Wabash
Western Boone High School Boone	Western Boone High School	Boone

6





REACH Centers

(Regional Employment Assessment Center for Hiring) and

REACH Consultants

Services for Business & Local Economic Developers

Designed to improve two specific workforce needs in the region, the REACH centers addressed the following:

- •How to improve the match between employer's needs and workers' skills in order to grow and support regional business attraction, expansion and retention;
- •Broker the Region's highly skilled workforce.

In response to state and national interest, the success of the first REACH Center in Lafayette and the move towards Regional integration, the REACH Center concept was replicated in Kokomo.



Two REACH centers were established in NCI's two largest population areas.

First in the largest area in the region: Lafayette/West Lafayette - 88,362 Tippecanoe County

> Replicated in the 2nd largest: Kokomo – 46,074 Howard County

SERVICES TO EMPLOYERS -

WorkKeys Testing
Employment verification and
background checks
Workplace readiness skills
Job Skills Assessment
Test-Taking
Interviewing
(fully described in the Appendix)

News Update - REACH (Regional Employment Assessment Center for Hiring) helps with Subaru of Indiana Automotive, Inc. hiring needs.

Click here to read the full case study by SIA.

(Included as a Separate PDF Document SIA Case Study)

The REACH center focuses on the redesign of business services in the Workforce Developments system by providing customized quality products to employers. These services will include customized recruitment, regional labor market information, business training opportunities, employment verification, business seminars, grant funding information, marketing, background checks, reference checking, drug testing, customized screening services and additional innovative solutions as determined by the business community through business intelligence gathering.



FOR PROSPECTIVE EMPLOYEES

Sending the message:
WHAT's YOUR SKILL LEVEL?
Employers want to know!

Through REACH we are able to identify the skill levels necessary for both entry level and high performance level positions for successful employment (hiring and promotion) and then match the employees to the skill requirement.

The REACH Centers and the associated Business Service Consultants successfully supported the NCI WIRED vision of transforming our regional workforce system in collaboration with Tecumseh Area Partnership, North Central Indiana's Regional Operator, and the Local Economic Development Officials.

RESULTS

~10,500 job candidates assessed

Over 3600 workers placed

~150 employers using REACH services

Our region had vastly underutilized
Training Acceleration Grants (TAG)
provided by the Indiana Department of Workforce
Development (IDWD) which were designed to assist
companies in training workers.

Through the REACH Centers and Consultants, over

\$1.5 M increased training funds were brought to the region including

\$530,941 in

Training Acceleration Grant (TAG) funds.

Initial activities focused on connecting businesses to resources

for incumbent worker training. Later more emphasis was placed on <u>connecting employers to a high quality workforce</u>
using the newly integrated Work One system and the use of additional screening tools at the REACH centers.

Business consultants are an important link in evaluating each employer's level of need in relation to the overall growth of the regional economy. Business Consultants continue to link the workforce development system to counties and communities.

Business Consultants
also implemented
a new service strategy model using
Business Retention and Expansion
software and contacted nearly 200
companies.



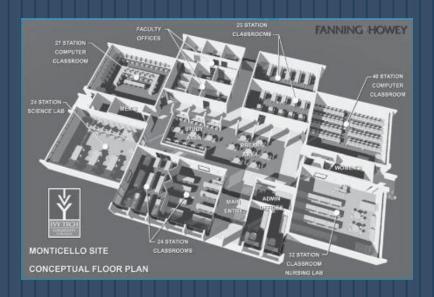
White County Instructional Center

An old medical arts building
A determined group of civic leaders
Partnerships with WIRED and Ivy Tech
EQUALS

A state of the art training facility



students enrolled
college credit courses offered
students enrolled in WorkOne classes
incumbent workers trained



Additional programs to develop 21st Century Talent



An essential connection.

Wiser is an essential connection between our state's abundant energy resources and the future of a sustainable economy in Western Indiana.

Today, 91% of our energy dollars leave the state. To make things worse, most of the electricity we generate in state burns limited fossil fuels.

But there are possibilities. Wiser sees a future in which energy is produced locally and sold to the rest of the world-sustainable, clean energy that's here to stay.

As energy flows out, dollars flow in, bringing jobs and improving the standard of living. That's economic development based on abundant, not limited, resources.

Wiser knows the technologies, sees the opportunities, and can help you make



WIRED funding supported the formation of Wiser. Their mission: to help make sustainable energy an engine that drives our region's economy.

With the growth of renewable energy production, Western Indiana plays an important role in our country's goal of energy independence. Increased solar energy, wind energy, geothermal heat, biomass energy and energy efficiency improvements will all require knowledgeable, well-trained workers. Purdue College of Technology: Strengthen the career pathway for renewable and advanced energy for the existing Bachelor of Science in Electrical Engineering Technology (EET) at the Purdue University College of Technology at Kokomo in collaboration with the College of Technology at West Lafayette. This project focused on the development and integration of new energy topics in existing Electrical and Computer Engineering Technology (ECET) courses across the curriculum.

A workshop was developed and delivered to approximately 25 STEM teachers (high school, community college, and university STEM faculty) on November 20, 2009. The workshop was entitled —Future of Conventional and Renewable Electrical Energy: What Should Students Know?"

The workshop was sponsored by Delphi Electronics and Safety, Duke Energy, and Purdue University.

The College of Technology recently received approval for a BS in Engineering Technology. This degree will be offered at Statewide locations in Kokomo, South Bend, and Anderson. These three locations represent regions of the State of Indiana that have been hit hard by a depressed automotive industry. Another funded study is needed to develop a concentration in the broader area of energy for this new degree.

Retraining Indiana Construction Workers for Road and Bridge Construction

- A joint team of Ivy Tech and Purdue faculty and staff recognized the need for workers to be trained on a job skill that would provide immediate job opportunities. They created a class offering an introduction to road and bridge construction along with practical construction knowledge, employment information, and a 10-hour safety training certification through the Occupational Safety Health Administration (OSHA).
- Future collaborations between Purdue and Ivy Tech are being planned in the area of road and bridge construction worker training.





Sustainable Agriculture Workforce Development Survey

WORKFORCE NEEDS - ORGANIC FARMING: A research grant to determine the workforce implications of organic farming within the NCI region was conducted by Ivy Tech with WIRED funding.

State of the Workforce Report and Roll Out:

Provided a complete and thorough review of the current workforce situation and trends in the NCI WIRED region that could inform decision making for new curriculum development, economic activities and incumbent workforce skill advancement.

Work continued with Workforce and Economic Development officials, colleges and universities, elected officials and all civic leaders to develop workable strategies using the information contained in the Workforce Report.



High school and college students were connected with Indiana employers for valuable internship experiences.

Independent Colleges of Indiana I-STEM Resource Network Feedback Loop

Informed high school administrators of "Indiana Grade Report" website and new website project;

Educated high school administrators of trend data available with tools that are useful to improve curriculum for student success in their secondary education;

Collaborated with high school administrators on new website project.

Discussed importance of literacy and STEM education to improve student success in each stage of their education and workforce in Indiana.