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Partnership for Excellence in Research and Learning (PERL)

Citizens Energy Group Today

We're creating a more livable, sustainable city by improving customer service; enhancing our environment; and controlling costs

- Largest water and wastewater utilities in Indiana
- Natural gas utility serving Indianapolis
- Nation's second largest steam utility serving downtown Indianapolis
- Other for-profit businesses



Focus on Sustainability

At Citizens Energy Group, sustainability and social responsibility are guiding principles of our vision to serve our customers and communities with unparalleled excellence and integrity.

Sincerely,



*A sustainable utility
needs a sustainable
community!*



Environment

Business



Community





What is PERL?

Partnership for Excellence in Research and Learning (PERL) is an initiative started by Citizens in 2015 to recruit and retain top talent in the state of Indiana.



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PERL Goals

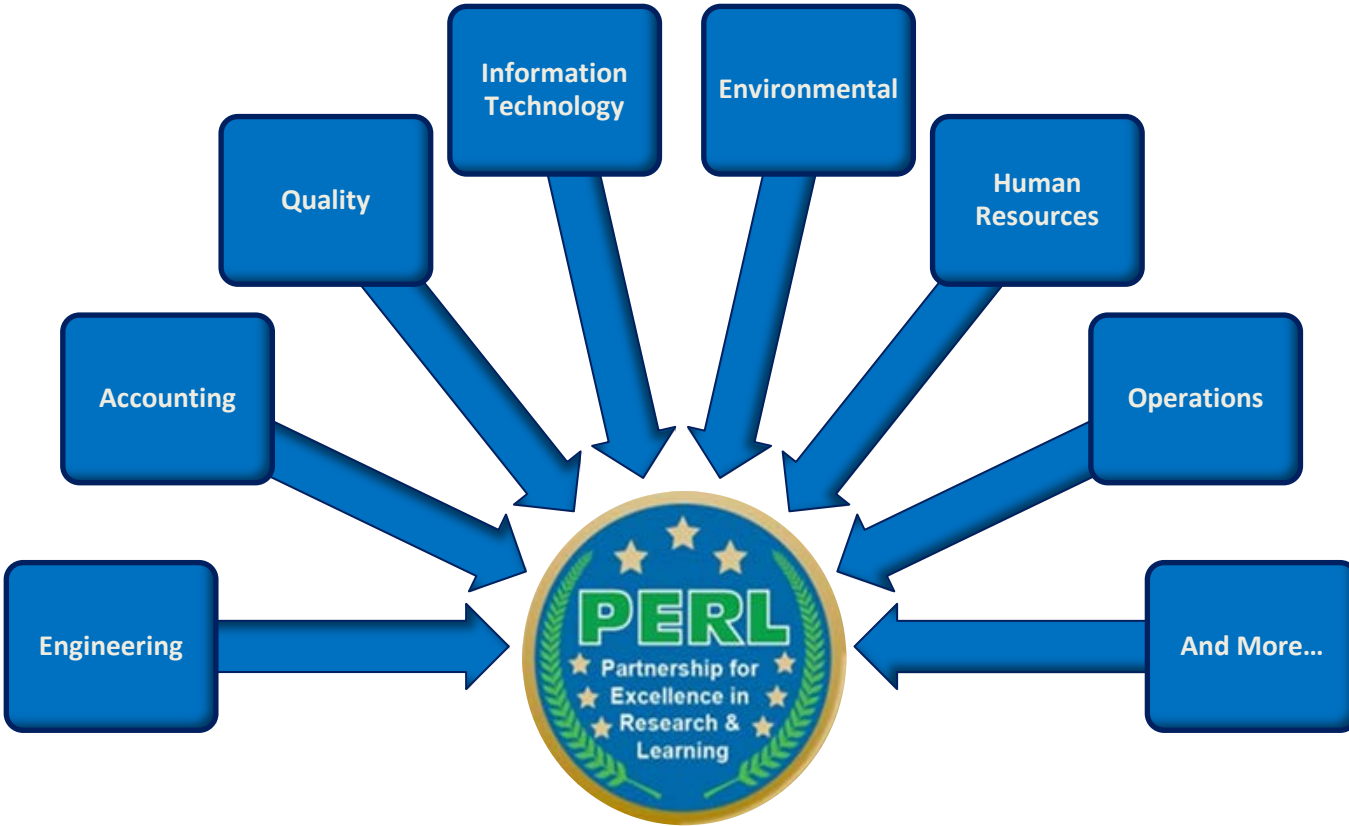
- Encourage graduating students to remain in Indiana and the Indianapolis area after graduation to fulfill workforce needs
- Create more professional development opportunities for students as emerging talent and future business leaders
- Create an improved exchange of industry and collegiate data that will better address research, technology and industry challenges



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PERL Disciplines

PERL is pursuing partnerships in ALL disciplines in support of our business.



Current Academic Partners

Our Academic Partners are paired with Citizens PERL Ambassadors, typically alumni of the partner university.

Official Universities Partners include:

- IUPUI
- Purdue University
- Trine University
- Ball State University
- University of Indianapolis
- University of Evansville



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UNIVERSITY OF
EVANSVILLE

PURDUE
UNIVERSITY

TRINE
UNIVERSITY

Ψ IUPUI
FULFILLING the PROMISE

BALL STATE
UNIVERSITY

UNIVERSITY of
INDIANAPOLIS



Participation Benefits

- Gain real world industry skills and knowledge
- Resume builder (experience, references, etc.)
- Apply classroom knowledge/skills
- Career path, opportunities and decision-making assistance
- Develop professional contacts
- Access to industry expertise
- Behind-the-scenes tour opportunities



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Partnership Example

- Student Projects
- Internships
- Tours
- Research
- Guest Lectures
- Careers
- Job Shadowing



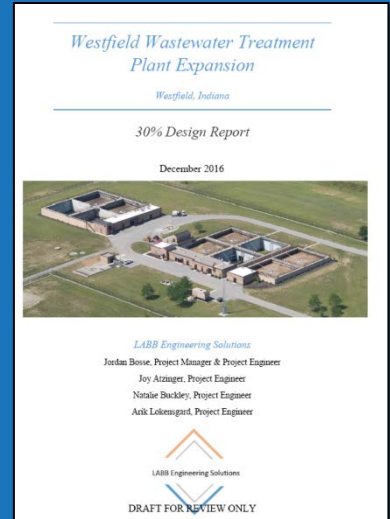
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Student Projects

Rose-Hulman Senior Design Project - Westfield Wastewater Treatment Plant



Internships

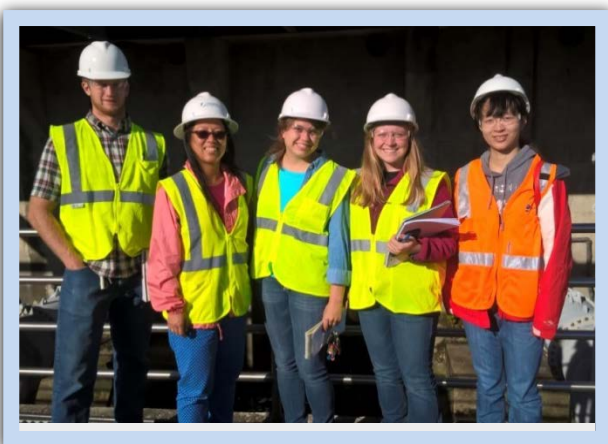
Citizens Internship Program:

- Orientation
- Site Visits
- Lunch and Learns
- Exchange Program
- Mentor
- Intern Presentation
- Cross Functional Assignments



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Educational Tours

Provides a parallel between real infrastructure and class curriculums

Tours support these fields of study:

- Engineering
- Engineering Technology
- Environmental Sciences
- Construction



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Tour Locations

- Chilled Water Plant
- Lift Stations
- Water Treatment Plants
- Underground Storage Tanks
- Lift Stations
- And Many More...



DigIndy Tunnel System



Perry K Steam Plant



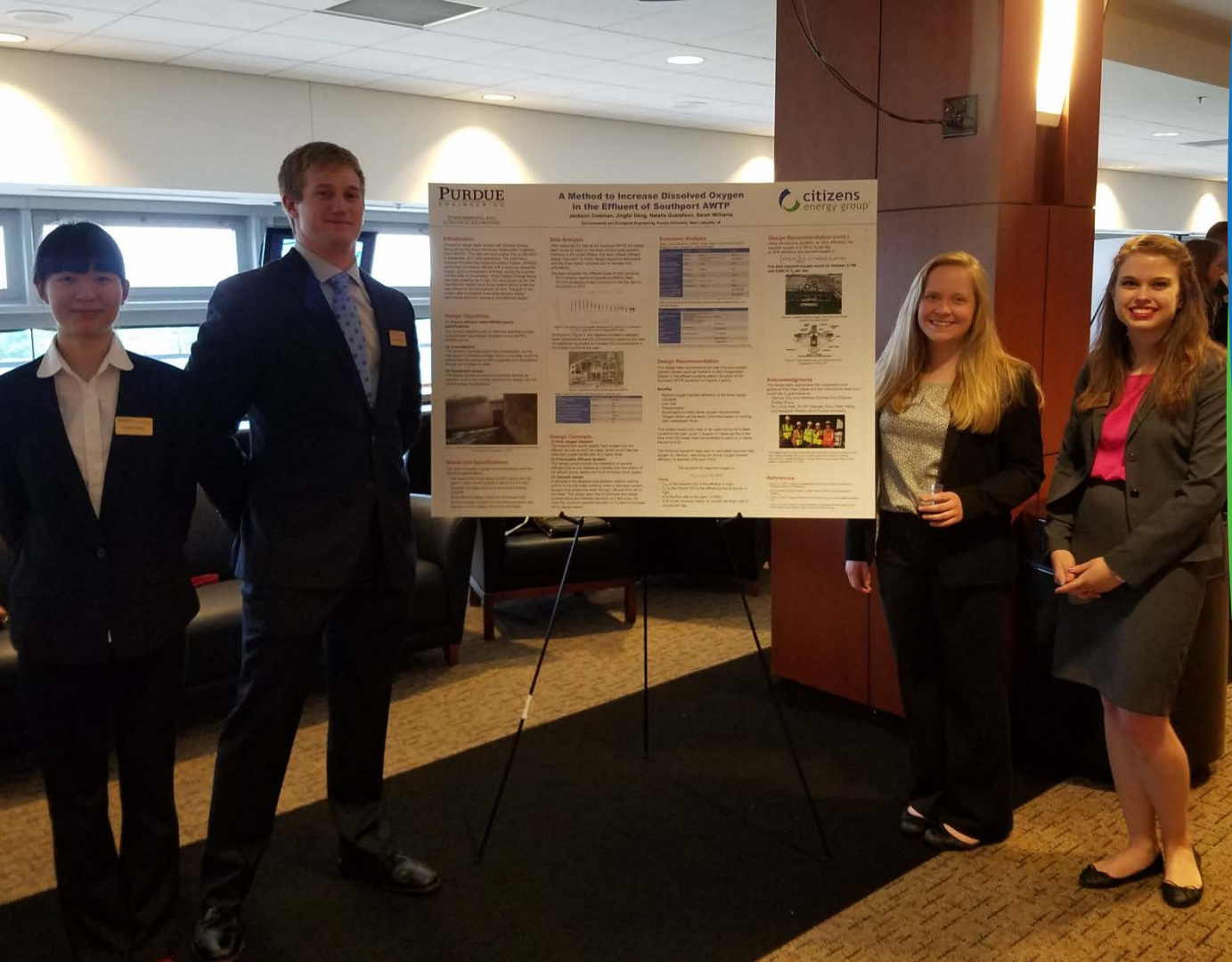
Citizens Reservoir



Advanced Wastewater Treatment Plants



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Research

- Water Residual for Beneficial Reuse Testing
- Intermediate Water Demand
- 10,000 Trees Auxiliary Benefit Study
- Eagle Creek Algae Research



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Guest Lectures/Presentations



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Careers/Job Shadowing

PERL also benefits various utilities' supporting businesses, creating a State-wide advantage for the Utility Industry's future.

PERL Vendor Network

- American Council of Engineering Companies
- American Structurepoint, Inc.
- Bowen Engineering
- Christopher B. Burke Engineering
- F.A. Wilhelm
- HNTB
- Powers Engineering



ACEC *Indiana*



AMERICAN
STRUCTUREPOINT
INC.



CHRISTOPHER B.
BURKE
ENGINEERING, LLC

W
WILHELM
CONSTRUCTION

HNTB

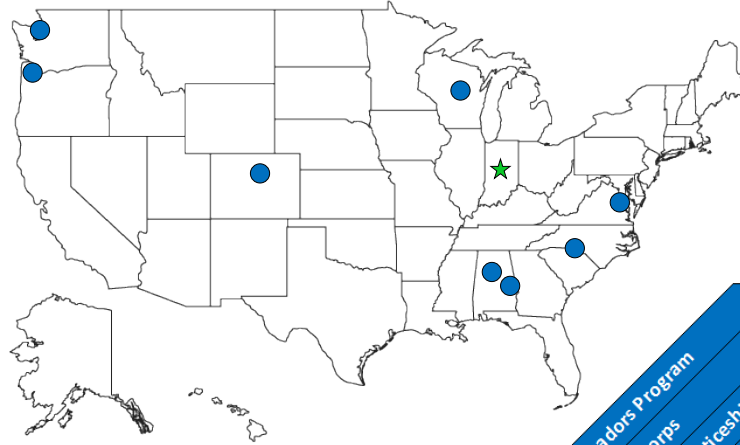
POWERS
ENGINEERING



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Benchmarking

Similar programs around the country, yet PERL remains unique.



Utility Company	Type of Utility	Location	Type of Program										
			Ambassadors Program	AmeriCorps	Apprenticeships	Career Fairs	Co-op/Internships	Job Shadowing	Presentations / Guest Lectures	Research	Scholarships	Senior Design	Tours
Citizens Energy Group	Gas, Water, Waste water	Indianapolis, IN				✓	✓	✓	✓	✓		✓	✓
Alagasco	Gas	Alabama									✓		
Birmingham Water Works	Water	Birmingham, AL	✓										
Clean Water Services	Waste water	Hillsboro, OR		✓		✓	✓	✓	✓	✓			✓
DC Water	Water, waste water	Washington DC								✓			
Denver Water	Water	Denver, CO				✓	✓					✓	
Duke Energy	Electric	Charlotte, NC					✓			✓			
Seattle Public Utilities	Water, waste water, solid waste	Seattle, WA		✓		✓							
We Energies	Electric, natural gas, steam	Wisconsin					✓						



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Testimonials

“Being lowered into the tunnel and seeing all of the large scale equipment up close was not something I could have grasped via pictures in a textbook. The size of the tunnel, both length and diameter, were truly impressive.”

- *Amy Getchell, Purdue University Graduate Student
and PERL participant*



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Questions?

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If you have a collaboration idea, Citizens' PERL team would like to hear from you!

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Website: www.CitizensEnergyGroup.com/PERL



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