What types of Real World Externships are available?

Jenna implemented a recycling program at sudenga Industries to reduce waste and impact on the environment, as well as helped organize part of the moving inventory. She learned the science and skills involved science and skills involved



in this type of manufacturing, including welding, robotics and CNC programming.

-Jenna Moble, Science Teacher



Andrew created a functional database on a SQL server to store project proposal data at Clipper Windpower. This required extracting data from the former into the newly constructed database, as well as designing reports for the data.



- Elizabeth Van Dyck, Science teacher



Ricardo worked with Innovative Lighting's Quality Control department presenting to employees machinery safety. He also worked with engineers and observed the geometry behind the optics of LED lights and performed calculations to verify calculations to verify manufacturer specifications.

-Ricardo Martinez, Engineering teacher

Tell Me More...

Benefits: Teacher externs earn an income boost through a stipend of \$150/day for up to 30 days and are provided an experience which utilizes the latest real-world applications specific to each extern's discipline.

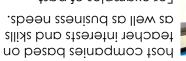
Time commitment: Externships are full-time summer professional development experiences with a standard 40 -hour work week for five-to-six weeks. A flexible work schedule may be negotiated between the host and extern depending on work needs and schedules.

Graduate credit: Teacher externs earn one hour of graduate credit through the University of Northern lowa Continuing Education for their participation and completion of reflection assignments.

Expectations: 1) A minimum of 25 days at the Externship site; 2) Weekly reflection of Externship experience and classroom application via an online blog; 3) Identification of specific content and 21st Century Skills observed and how students will see the real-world application of those skills in the classroom; 4) Participation in program evaluation; and 5) A terrific work experience!

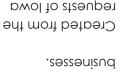
Experience: Previous business/industry experience is not required to participate. On-the-job training will be provided to prepare you for the tasks and assignments of the Externship.

Externships available: Program coordinators will match qualified applicants to area partnering



For examples of past Externship experiences please visit iowastem.gov/past-externships

and technology with e opportunities to gain invaluable "real-world" experience in world" experies and tocal industries are also are also and tocal industries are also and tocal industries are also are also and and also are also



students wanting to know, When am I ever going to use this in the real-world?, the Externship program provides educators with the exposure to answer this question and improve the educational experience and

Launched in the summer of 2009, this unique school and business alliance aims to:

career knowledge of lowa's students.

- Provide a launch point for permanent
- business-school partnerships.Connect the Externship experience directly to classroom content and 2
- directly to classroom content and 21st
 Century Skills identified in the lowa Core.

 Give students real-world career
 information about businesses and
- industries right here in lowa

 Provide teachers with an income boost while seeing and using the latest real-world applications in a business/industry

in their own community.

Apply Now for Summer 2016 Externships! www.iowastem.gov/externships/apply



The Real World Externships program is science, mathematics and technology with





A sample of partnering businesses and industries include:



















































Boehringer

P&G



















What are Teacher Externs saying about **Real World Externships?**

"I think that learning something new is something teachers don't get enough of in professional development. Our students have to learn new things, but if we have not traced the journey, it is easy to fall into doing what fits our needs not theirs."

- Jonnie Becker, Extern, KEMIN Industries

"The Externship called on my creativity, innovation, collaborative skills and communication skills to get the task done. That is what we need to teach; it is not what you know, it is how you put it to use."

- Gary Morris, Extern, U.S. Army Corps of Engineers

"If teachers don't get out and see how businesses actually operate, it is hard for them to convey business operations and models to their students. Also, by experiencing the latest trends and technology, I can teach as a more informed resource."

– John Kotz, Extern at John Deere Des Moines Works

The Governor's STEM Advisory Council

The Governor's STEM Advisory Council was created by Executive Order #74 of Governor Terry Branstad in the summer of 2011. The Council's overarching goal is to boost student interest and achievement in science. technology, engineering and mathematics (STEM) for a strong workforce pipeline in the STEM fields and a STEMsavvy citizenry of wise consumers.

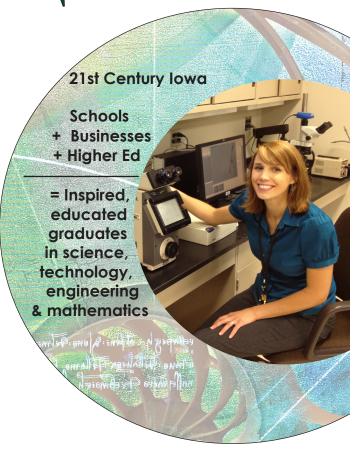


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