

TEACHER BROCHURE

WHAT IS THE IOWA STEM TEACHER EXTERNSHIPS PROGRAM?

The Iowa STEM Teacher Externships program provides Iowa's educators who teach STEM-related subjects with an opportunity to work in today's local industries, businesses and agencies to help students answer the age-old question, **"When am I ever going to use this?"**

Since the program launched in 2009, more than **300** Teacher Externs have worked at **100+** Iowa workplaces, building long-lasting school-business partnerships across Iowa that provide educators with the ability to improve student STEM experiences and career knowledge as well as:

- Connect the Teacher Externship experience directly to classroom content and 21st Century Skills identified in the Iowa Core Curriculum.
- Support the local workforce by providing students with STEM career information about business and industry in their community.
- Provide teachers with an income boost and a graduate credit and/or AEA LRCs while seeing and using the latest real-world applications in a workplace environment.



of teachers agreed Teacher Externships are more valuable than any other professional development.



of teachers agreed that Teacher Externships tie to what they teach.



of teachers agreed that Teacher Externships improved their own views of math or science teaching.



of teachers agreed that Teacher Externships impacted their teaching.

Post-Externship: Significantly more teachers reported a stronger ability...

- to advise students about job opportunities in the subject.
- to use inquiry instruction.
- to supervise student research projects.

**APPLY
TODAY**

www.iowaSTEM.gov/Externships/Apply

WHAT TO EXPECT

We Will Match You

Our program coordinators will match qualified teacher applicants to partnering Workplace Hosts local to them based on the teacher applicant's interests and skills, as well as the partnering Host's needs. Previous business or industry experience is not required. The Workplace Host will provide on-the-job training to prepare teachers for the tasks and assignments of that specific experience.

You Get Paid

Teacher Externs earn a stipend of up to \$4,800 that includes 30 days at the Host site plus two paid professional development days, utilizing the latest real-world applications specific to the subject they teach.

Time Commitment

Teacher Externships operate over six, full-time weeks in the summer. The Workplace Host and Teacher Extern negotiate a flexible work schedule to complete 30 days at the Workplace Host site.

Graduate Credit and/or AEA LRCS

Teacher Externs earn one hour of graduate credit through the University of Northern Iowa's Continuing Education program and/or two Iowa Licensure Renewal credits for their participation and completion of assignments during the Teacher Externship. These assignments help Teacher Externs identify content and 21st Century Skills of the Iowa Core Curriculum applied and found in the workplace.

Evaluation

Teacher Externs participate in evaluation tasks to measure the success of the program and help shape it for the future.



WHAT DO TEACHER EXTERNS DO?

1. Jenna Noble, Science Teacher George-Little Rock High School



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

2. Adam Moss, Technology Teacher LeMars Community Schools



Adam worked with the Research and Development Tech Services group at Wells Enterprises. As a technology teacher and growing up on a dairy farm, he used this background to assist with the study of different processes to prepare ingredients for ice cream production.

3. Elizabeth Van Dyck, Science Teacher Weeks Middle School



Beth assisted Blank Park Zoo's zookeepers with daily animal care and collaborated with zoo staff to research and create informational signs for a new African animal exhibit.

4. Ricardo Martinez, Mathematics Teacher Colo-Nesco Jr./Sr. High Learning Center



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



WHAT DO TEACHER EXTERNS THINK?

Jonnie Becker, Science Teacher, North Butler High School



"I think 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."

Gary Morris, Science Teacher, Meredith Middle School



US Army Corps
of Engineers
Rock Island District

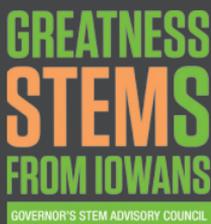
"The Teacher Externship called on my creativity, innovation, collaborative skills and communication skills to get the task done. That is what we need to teach; it is not what you know, it is how you put it to use."

John Kotz, Technology Teacher, Waukee Community Schools



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



The Iowa Governor's STEM Advisory Council

The Iowa Governor's STEM Advisory Council was created by Executive Order #74 of Governor Terry E. Branstad in July 2011.

The STEM Council's overarching goal is to boost student interest and achievement in STEM subjects and build a stronger workforce pipeline to meet the STEM career demand in Iowa.

OUR PARTNERS



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