TOMORROW STEMS FROM IOWA
GOVERNOR'S STEM ADVISORY COUNCIL

IOWA STEM TEACHER EXTERNSHIPS PROGRAM

WHAT EXTERNSHIPS CAN DO FOR YOU



WHAT IS AN EXTERNSHIP?

A 200-240 hour paid summer experience for Iowa STEM teachers to work alongside skilled employees at a local workplace in order to build school-business partnerships and increase career awareness.

BENEFITS OF HOSTING

- Build partnerships that enhance your workplace/future workforce.
- Contributions of experienced and skilled teachers.
- Realize the value of an Extern's work monetized between $2,500-$10,000.
- Recognition of your commitment to STEM education and local economic development.

PREPARING TO HOST

- **Consider cost-share contribution**. Workplace Hosts are encouraged to make a tax deductible contribution to offset the program cost.
- **Gather your team.** Externs and hosts find the most benefit from the experience when Externs are viewed as a contributing team member.
- **Identify team roles.** The Externships Program needs a point person at the work site, as well as the person that will most likely be working with the Extern on a daily basis.
- **Identify projects and/or needs.** Longstanding "to do" lists are often a great place to start. Multiple projects, varying in breadth, depth and time should be considered.

STEP BY STEP

1. MAKE A PLAN WITH YOUR TEAM
2. COMPLETE INTEREST FORM
3. REVIEW APPLICANTS (AFTER MARCH 1)
4. COMPLETE PLACEMENT

FOR MORE INFORMATION

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www.Educate.Iowa.gov/STEM/Externships

Technology and Mathematical Modeling

Walaa Alshafei, Iowa City mathematics and computer science teacher, worked in the application ACT uses to organize and manage tasks, document progress, and coordinate evaluations. She helped keep projects on track by ensuring that tasks were properly documented and ready for review during the next evaluation cycle. She gained valuable insight into real-world methods for identifying system vulnerabilities and understanding how attackers might exploit them deepening her knowledge of network and application security.



Albert Hayton, math teacher,
Clinton CSD
Extern with Custom-Pak, DeWitt

Laboratory and Field Sciences



Brandy Borg, science teacher,
West Des Moines CSD
Extern with Corteva Agriscience, Des Moines

Andrea LePage, Wilton science teacher, worked in the environmental lab responsible for tracking the waste treatment process at Bayer Chemical. This lab ensures that dangerous chemicals are not being dumped into Iowa's rivers. Her work focused on testing nitrates and nitrites in water and integrating these tests daily operations.

Josh Ellis, Pella science teacher, worked with the U.S. Army Corps of Engineers at Lake Red Rock. Josh facilitated the assemble and placement of fish habitat structures. Josh was able to take the lead on developing a deployment plan complete the installation.

Engineering and Manufacturing

Jason Holt, Emmetsburg industrial technology teacher, shared his time with two commercial contractors in the construction industry during his experience. He worked with Midwestern Mechanical in their plumbing division learning the skills of an apprentice in several different job sites. He then transitioned to K&W Electric, Inc. working as an apprentice electrician at several different job sites. Both settings enhanced Jason's skills, to bring real-world experiences back to his classroom. This experience allows students to gain knowledge of the industries and create interest in the trades.



Michael Dorland, industrial tech teacher,
Missouri Valley CSD
Extern with Woodbine Manufacturing
(Tommy Gate), Woobine