



## CASE STUDY



### Who:

Tyler Robyn, Rock Valley Middle School  
Brian Rosenboom, Corporate Vice President at Rosenboom Machine & Tool

### What & When:

Iowa STEM Teacher Externships Program, Summer 2015

### Where:

Rosenboom Machine & Tool in Sheldon, Iowa

### The Story:

Robotics loading, running inspection equipment and operating machinery are just some of the daily duties Tyler Robyn completed during his Iowa STEM Teacher Externship at Rosenboom Machine & Tool in northwest Iowa. The program, supported by the Iowa Governor's STEM Advisory Council, gave Tyler the opportunity to explore mathematics through an on-the-job, professional experience that equipped him with resources to enhance his classroom curriculum and introduce students to STEM career opportunities in their area.

Learn more about Tyler's Iowa STEM Teacher Externship by watching:

<https://www.youtube.com/watch?v=KFuZU7oQMHA>

Are you a teacher or workplace interested in participating in the Iowa STEM Teacher Externships Program? Please visit:

<http://www.iowastem.gov/externships>

**GREATNESS<sup>®</sup>**  
**STEMS**  
**FROM IOWANS**

**GOVERNOR'S STEM ADVISORY COUNCIL**

dedicated to building a strong STEM education foundation for all Iowans



## IOWA STEM TEACHER EXTERNSHIPS FACT:

**A slight overall increase in interest in science, engineering and mathematics, and in STEM careers, is seen among students of teacher externs—with a significant increase among females.**

"The main goal of education is to prepare students for when they get out into the working world, whether it's right out of high school or a two- or four-year school. So, when you build relationships between business and education, you start looking at ways you can prepare students to get a job and be successful."

—Tyler Robyn

"It's ultimately good for the teachers to create those connections to our business, to see what our factory is like and what the technical expectations are, and how STEM can be used directly in a real-world application."

—Brian Rosenboom

