

## Help retain quality STEM teachers by providing a summer work experience!

Teachers in Industry is the innovative business-education partnership that connects experienced classroom teachers with opportunities to join your workforce during the summer. Businesses gain from the professionalism and expertise of a science, technology, engineering or math (STEM) teacher. Teachers take their real-world industry experience back into the classroom to more effectively prepare students to enter the future workforce.

Teachers in Industry is the best long term investment in the development of future scientists, technologists, engineers and mathematicians essential to the 21st century workforce.

Teachers in Industry was established in 2009 by the University of Arizona College of Education, Tucson Values Teachers, the Southern Arizona Leadership Council and Raytheon Missile Systems.

### HOW IT WORKS

- Businesses identify a 6-8 week work assignment that provides meaningful experience in a teacher's area of expertise.
- Teachers apply to the Teachers in Industry program, which also facilitates the interview and selection process with businesses.
- Teachers work full-time four days a week during the summer. Fridays are reserved for UA coursework leading to either a master's degree or professional development credit.
- Businesses pay teachers an industry-level wage, ranging from \$5,000 to \$10,000 for the 6-8 week period.
- The Teachers in Industry staff provide support for teachers and businesses during the duration of the assignment.



*Tucson Unified School District teacher Tracie Van Ert works with Hunter Rosen, a principal engineer at Raytheon Missile Systems, to determine the most effective way to clean telescopes using carbon dioxide "snow."*

### RESULTS

- More than 50 businesses have provided over 300 industry experiences to over 130 teachers who influence more than 20,000 students each year in classrooms across Arizona.
- \$750,000 in direct investment from Science Foundation Arizona, \$670,000 from Freeport McMoRan Foundation, and over \$500,000 from the Thomas R. Brown Family Foundation have helped to cover UA tuition expenses for teachers.
- Over \$2.5 million invested by businesses, which has been paid to teachers as compensation.

### THE BOTTOM LINE

- Teachers gain valuable industry experience that directly impacts teaching and learning opportunities in Arizona classrooms.
- Businesses gain experienced summer employees who make meaningful contributions in their workplace.
- Students learn about your business and are better prepared to meet your STEM workforce needs.

# TEACHERS IN INDUSTRY

Partnering with business to prepare the future workforce



Tucson High School anatomy teacher Sheila Marquez is working in infection control research at Tucson Medical Center.

## JOIN THESE BUSINESSES

- Aerospace/Defense: BE Aerospace, Fort Huachuca, Northrop Grumman, Raytheon Missile Systems
- Agriculture: Pinto Creek Farms
- Bio-Science: Arizona Research Labs, Biosphere 2, Celgene, Critical Path Institute, Sanofi Aventis, Ventana Roche
- Construction: Arizona Mechanical Insulation, Sundt Construction
- Energy: Arizona Electric Power, Arizona Public Service, Salt River Project, Southwest Gas, Southwestern Power Group, Unisource Energy/TEP
- Engineering: Honeywell, Paragon Space Development Corp, Texas Instruments
- Financial: BeachFleischman, Vantage West Credit Union
- Government/Nonprofit: National Solar Observatory, Tucson Airport Authority, USDA
- Health: Banner Health, Tucson Medical Center, Yuma Regional Medical Center
- Manufacturing: BioVigilant, General Plasma, Medtronic, Orbital Sciences, Piper Plastics, Inc., SUMCO, VANTE
- Mining: ASARCO, Freeport McMoRan

## TYPES OF WORK ASSIGNMENTS

- Accounting
- Chemical Analysis
- Circuit Design
- Environmental Monitoring
- Failure Analysis
- Information Security
- Program Design
- Quality Control
- Research and Analysis

## TIMELINE

- Fall: Businesses commit to provide summer work assignments for teachers.
- Beginning mid-February: Teacher resumes are forwarded to business participants.
- Beginning early March: Businesses interview teacher candidates.
- Summer: Work assignments begin at the conclusion of a teacher's school calendar and end before the start of the next school year.



Sheila Marquez's industry experience benefits her work with students in the classroom.

## CONTACT US

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