

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 7-9 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 \$12,000 for the 7-9 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 40 businesses have provided industry experience to over 100 teachers who influence more than 15,000 students each year in classrooms across Arizona.
- \$750,000 in direct investment from Science Foundation Arizona, \$670,000 from the Freeport McMoRan Foundation – which has helped cover teacher UA tuition expenses, and \$250,000 from the Thomas R. Brown Family Foundation.
- \$1.7 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: BE Aerospace, Fort Huachuca, Honeywell, Northrop Grumman, Raytheon Missile Systems
- Bio-Science: Banner Health, BioVigilant, Celgene, Critical Path Institute, Sanofi, Tucson Medical Center, Ventana Medical Systems
- Construction: Arizona Mechanical Insulation, Sundt Construction
- Finance: Beach Fleischman
- Manufacturing: General Plasma, Orbital Sciences, Medtronic, Piper Plastics, SUMCO, Texas Instruments, VANTE
- Mining: Freeport McMoRan Copper and Gold
- Science Research and Development: Arizona Research Labs, Biosphere 2, National Solar Observatory, Paragon Space Development, UA Tech Park, USDA
- Transportation: Tucson Airport Authority
- Utilities: Arizona Electric Power Cooperative, Arizona Public Service Co., Salt River Project, Southwestern Power Group, Unisource Energy/TEP

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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