

# Women in Science and Engineering (WISE)

## 2016 Opportunities

**Science Club, Manzo Elementary:** WISE is partnering with Manzo Elementary School to get students excited about science through a 10-week, hands-on science club. We're looking for university students who are interested in mentoring small groups of Manzo students as they work through developing and implementing a small-scale research project on the Manzo campus. This 10-week long program will allow students to learn the scientific method, while also enabling them to answer scientific questions of their own design!

**Schoolyard Biodiversity Inventories:** We're partnering with the Desert Museum, Saguaro Park, and TUSD to conduct biodiversity inventories at local schools using an app called iNaturalist. We are looking for university students who would be interested in assisting with designing and implementing this program. There will also be volunteer opportunities for individuals interested in participating in individual inventories.

There will be a required training at the end of February.

**iSTEM: Engaging Native American Youth in STEM:** (transportation provided)  
iSTEM engages 3rd – 8th grade Native American students in informal STEM activities. Volunteers work with groups of students to guide them through thematically driven, hands-on activities (e.g., solar energy; mapping and GIS, etc.).

**Mini LEO Program:** The Landscape Evolution Observatory (LEO) sits under the glass at Biosphere 2 (B2) and consists of thousands of sensors. The mini-LEO is a micro scale LEO model designed to allow K-12 students, to engage in B2 research. Volunteers would be involved in creating and/or refining in and outdoor lesson plans and activities and working with the students.

**Women in Optics (WiO):** Through this program, undergraduate students learn how to build optical science demonstrations and then take these demos on the road to local schools where they use the equipment they built to demonstrate the basic principles of light and get K-12 students excited about optical science.

For more information on how to get involved in any of these programs contact Jill Williams at [JillMWilliams@email.arizona.edu](mailto:JillMWilliams@email.arizona.edu) or Kristen Gautier-Downes at [kgautierdownes@email.arizona.edu](mailto:kgautierdownes@email.arizona.edu)