In this academy, teachers will gain a ready-made, real-world and relevant unit that uses a simple form of systems thinking, includes engineering design and fully activates all science and engineering practices. They will experience the use of crosscutting concepts to form relationships and take perspectives. And finally, teachers are guaranteed assistance; an APW facilitator delivers 2 of the 12 lessons in the unit!

**Activating 3-Dimensional Instruction Rainwater Harvesting STEM Academy**

*For 6th – 12th Grade Teachers*

This 2-day Rainwater Harvesting Academy will demonstrate the 3-Dimensional aspects of the Arizona Science Standards.

**DATE:** June 9th & 10th
**TIME:** 8:30 am to 3:30 pm
**LOCATION:** Avondale Municipal Operations Center, 399 E. Lower Buckeye Rd., Avondale

*Lunch and Curriculum Guide provided.*

Students will:

- **Analyze and interpret** the school landscape looking for evidence of run-off.
- Discover how weather **patterns** affect the quantity of rainwater collected and **scale** of the collection system.
- **Use a model** of a rainwater harvesting system to **analyze and interpret data** during an experiment.
- Understand how **proportion, quantity, and scale** impact rainwater harvesting supply and landscape demand.
- **Use mathematics and computational thinking** to calculate input to and output from a rainwater harvesting system for their school landscape.

**Aqua STEM Units** use Science & Engineering Practices to help students ask questions, define problems, construct explanations and design real world solutions.

Register for all Aqua STEM Units here: [2020 Aqua STEM Registration]

Please Note: “3-D Learning & Systems Thinking” is a Pre-requisite for all Aqua STEM units.