

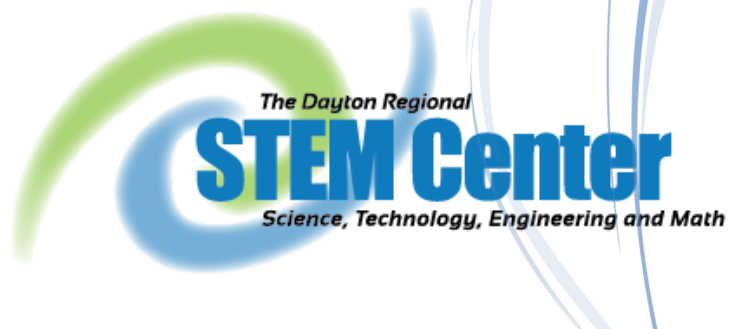
# Seeking STEM Industry & Higher-Ed Volunteers



## Volunteers NEEDED to Collaborate in Curriculum Development with K-12 Teachers !

All scientific & engineering fields such as:

- Aerospace & Aviation
- Agriculture & Environmental Engineering
- Biology, Chemistry, Physics
- Civil & Structural Engineering
- Electrical Engineering
- Materials & Manufacturing
- Mathematicians & Statisticians
- Sensing Technologies
- Power, Propulsion, & Alt Fuels
- Human Factors & Medicine



## Introduction to STEM Education

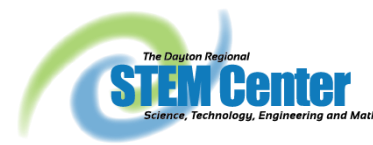
One of the most significant movements in the field of education today is the push to create powerful STEM learning experiences for students from early childhood through college. STEM stands for Science, Technology, Engineering, and Mathematics, but it is more than the simple sum of these four disciplines. Powerful STEM learning experiences provide students with engaging lessons specifically designed to promote inquiry, critical thinking, and problem solving. Equally important, they seek to help students see the powerful connections between the four fields of study and how those connections operate in the real world laboratories, industries, and research institutes in the Dayton region and beyond!

## An Invitation to Steer the Future

In order to carry out its important work, the Dayton Regional STEM Center needs to harness the collective energy and creativity of area teachers, professors, scientists, and engineers who would like to play a pioneering role in shaping STEM Education.

Scientist and engineer STEM Fellows will volunteer for thirteen meetings to collaborate on a curriculum writing team in effort to produce innovative, age appropriate, standards based STEM lessons. Additionally, these industry volunteers are encouraged to support community outreach and in class STEM activities.

STEM Fellow meetings are a continued collaboration of STEM industry volunteers, higher education, government volunteers and educators. **Please see the attached schedule** for the Fellows season. We ask that volunteers are able to commit to season scheduling. Ready to volunteer or have questions? Please contact Liz Wolfe-Eberly, STEM Director at [Elizabeth.wolfe@mcesc.org](mailto:Elizabeth.wolfe@mcesc.org) or 937-225-4598.



# 2019-2020 STEM FELLOWS SEASON

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## FELLOWS MEETINGS (4:30-6:30pm)

October 23	Session 1
November 6	Session 2 - Three (3) hour meeting - Dinner will be provided
November 20	Session 3
December 11	Session 4
January 8	Ideation Phase 1 (off-site –TBD)
January 15	Ideation Phase 2
January 29	Team Brainstorming
February 12	Curriculum Phase 1
February 26	Curriculum Phase 2
March 4	Curriculum Support Meeting
March 11	Inclement Weather Makeup Session
March 18	Curriculum Phase 3
April 15	Curriculum Phase 4
April 29	Curriculum Phase 5
May 13	Curriculum Debut & Awards Banquet

All meetings are held at the **Montgomery County Educational Service Center**, 200 South Keowee Street, Dayton, Ohio, unless otherwise noted.

If you are interested in supporting this STEM Educational outreach effort please contact Liz Wolfe-Eberly at [Elizabeth.wolfe@mcesc.org](mailto:Elizabeth.wolfe@mcesc.org) or (937)225-4598 to learn more.

Annually this program supports professional development to approximately 20 districts in the Dayton region including private and charter schools. Since inception, programming efforts have impacted over 100,000 regional students and hundreds of professionals interested in positively impacting student understanding and self-efficacy in science, technology, engineering, and math.

Check us out at: [DaytonRegionalSTEMCenter.org](http://DaytonRegionalSTEMCenter.org)