

WPAFB Educational Outreach Volunteer Opportunities

The WPAFB Educational Outreach Office was established in 1999 to spark student excitement and enthusiasm in **Science, Technology, Engineering, Mathematics,** and aviation in hopes they pursue STEM-related studies and career paths.

Over the past 18 years, WPAFB personnel have had a direct impact on over 600,000 local K-12 students through programs that range from classroom visits and one-on-one job mentoring to tutoring young students on reading fundamentals.

Recognizing the need to inspire students toward science and technology, the WPAFB EO Office has

been leading the way for many years. To date, over \$35 million in free educational programs have been provided. In addition, WPAFB volunteers donate over 7,900 volunteer hours each month to support educational outreach!

Local classroom teachers have come to rely on the many free services our office and educational partners offer. Today we celebrate *Bright Horizons 2.0*—the Air Force initiative promoting STEM education. Will you please consider joining us as we pave the way for local students to experience brighter Horizons?



<http://www.facebook.com/wrightpatteo>

How do I become an EO volunteer?

Listed below are a variety of programs coordinated by the WPAFB Educational Outreach Office. Time commitments for volunteers vary, depending on the task. Some commitments are just a few hours. Please consider joining us! Being a volunteer is fun, rewarding, and a great way to get involved in your community!

To volunteer or ask questions, contact the coordinator/POC listed for each program. Additional information is available at the WPAFB Educational Outreach Office website.

Wpafbstem.com



<https://twitter.com/wpafbeo>



Educational Outreach
wpafbstem.com

EO Stats:

600,000+ locals students impacted


\$35+ mil. in educational programs


7,900+ volunteer hrs. donated/
month


25K+ teachers impacted


Interested in Volunteering???


- ◆ **Wizards of Wright (WOW!)**
- ◆ **STARBASE/STARBASE 2.0**
- ◆ **FIRST LEGO League (Robotics)**
- ◆ **FIRST LEGO League Jr.**
- ◆ **FIRST Robotics Competition**
- ◆ **Job Shadow Day**
- ◆ **SEMEDS**
- ◆ **Read Across America**
- ◆ **Academic Tutors/Mentors**
- ◆ **Science Fair Judges**
- ◆ **Classroom Speakers**
- ◆ **LEGACY**


WIZARDS OF WRIGHT (WOW!) - WPAFB Educational Outreach Office	
What is Needed: 	The Wizards of Wright (WOW!) Program is looking for volunteers. WOW! volunteers take a variety of STEM related demos out to local schools for hands-on programs. No experience is necessary – just an interest in Science, Technology, Engineering or Math as well as a desire to impact today’s students.
When:	On-going
Grade Level:	All K-12 grades, but most with elementary/middle school students
Location:	Local area
Time Requirement:	Varied. Demos scheduled at your convenience.
Training Requirement:	Training (as needed) conducted by the Educational Outreach Office Staff or experienced “Wizards”.
How to Apply:	For more information contact Angel Callahan. Email: antoinette.callahan.ctr@us.af.mil or phone 937-938-4868


STARBASE Wright-Patt	
What is Needed: 	STARBASE provides local students a variety of exciting, hands-on learning experiences designed to increase interest in and knowledge of math, science and technology as part of this nationwide Department of Defense program. We are looking for speakers to share information about their careers in Science, Technology, Engineering, or Math.
When:	August-June
Grade Level:	5 th grade
Location:	STARBASE Wright-Patt, 156 Spinning Rd. (Bldg 6933)
Time Requirement:	Flexible, based on your availability
Training Requirement:	None
How to Apply:	Contact: Jason Streiff, WPAFB Educational Outreach Office Email: jasonstarbase@gmail.com or phone 937-656-8678


STARBASE 2.0	
What is Needed: 	STARBASE 2.0 combines STEM activities with a relationship-rich, school-based environment to provide the missing link for youth making the transition from elementary to middle school. It extends the positive impact of STARBASE through a team mentoring approach which solidifies students' attachment to and engagement with school. Volunteers are needed as small group mentors.
When:	October–April (after-school)
Grade Level:	6 th grade
Location:	Spinning Hills Middle School, Mad River Township Schools
Time Requirement:	Every other Wednesday, twice a month (Sept–March) 4:00pm - 6:00pm
Training Requirement:	Some Pre-Activity Prep and Mentor Training Activities will be mentor-run. All information for activities and projects will be given to you.
How to Apply:	Contact: Jennifer Elifritz, WPAFB Educational Outreach Office Email: jenstarbase@gmail.com or phone 937-713-3159


ROBOTICS – FIRST LEGO League Jr.	
What is Needed: 	Individuals Interested in Student Robotics! WPAFB is the coordinating body for the State of Ohio for <i>FIRST</i> (For Inspiration and Recognition of Science and Technology) LEGO League Jr., an international educational program for 6-10 year-olds to explore basic engineering concepts while exploring real world themes (www.firstinspires.org). Needed are reviewers, Chaperones, and judges.
When:	Nov-April
Grade Level:	K – 4th grades (ages 6-10)
Location:	Statewide
Time Requirement:	Variable. We'll work with you on whatever time you can volunteer!
Training Requirement:	We will train you for these events based on your volunteer position.
How to Apply:	Contact: Kim Stultz at Kimberly.Stultz.ctr@us.af.mil to volunteer. For information about the <i>FIRST</i> LEGO League Jr. Program, please contact Kelli at Kelli.Dubendorfer.ctr@us.af.mil or 937-938-4864.


ROBOTICS– FIRST LEGO League - Includes Ohio Championship Tournament	
What is Needed: 	Individuals interested in Student Robotics and STEM Competitions! WPAFB is the coordinating body for Ohio for the <i>FIRST</i> (For Inspiration and Recognition of Science and Technology) LEGO League, an international educational program for 9-14 year-olds to learn basic robotics using LEGO Mindstorm robots (www.firstinspires.org), solve real-world problems based on an annual theme, and develop teamwork skills, presentation skills, and more. Coaches and mentors are needed for teams. Needed for statewide competitions are judges, referees, pit crews, scorekeepers, set-up and tear-down crews, team escorts, and more. The <i>FIRST</i> LEGO League Ohio Championship will be held at the Ervin J. Nutter Center. Dates are pending but will be either Feb 2-3 or Feb 9-10.
When:	Nov-Dec 2018 Regional Events Jan 2019 District Events Feb 2019 Ohio Championship
Grade Level:	4 th – 8 th grades (ages 9-14)
Location:	Statewide
Time Requirement:	Some training needed for specific volunteer roles. Training/meetings required to participate in the 2019 Ohio Championship. We'll work with you on whatever time you can volunteer!
Training Requirement:	We will train you for these events based on your volunteer position.
How to Apply:	Contact: Kim Stultz at Kimberly.Stultz.ctr@us.af.mil to volunteer. For information about the <i>FIRST</i> Lego League Program, please contact Brenda Ronnebaum at Brenda.Ronnebaum.ctr@us.af.mil or 937-938-4862.


ROBOTICS – FIRST Robotics Competition	
What is Needed: 	Individuals interested in Student Robotics Building and Competition! WPAFB is a coordinating body for Ohio for the <i>FIRST</i> (For Inspirations and Recognition of Science and Technology) Robotics Competition. An international education program for grades 9-12, in which students design, build, and program a robot as well as promote and provide the business structure to run their 'small business'. Mentors for individual teams are needed in all areas including engineering, programming, finance, and marketing. For the competitions, volunteers are needed (1-4) days as field reset crews, judges, set up and tear down crews, and more.
When:	Tournament volunteers are needed in 2019. Intensive 6-week build season in Jan-Feb, slower competition season Mar-Apr. Relaxed off season May-Dec.
Grade Level:	9 th -12 th grades (ages 14-18)
Location:	Statewide
Time Requirement:	Variable. The teams will take whatever time you can volunteer, on a daily, weekly, or monthly schedule. Volunteers for a tournament can help for 1-4 days.
Training Requirement:	As a mentor—we take whatever expertise you already have. For a tournament—we will train you as needed.
How to Apply:	For more information about teams or volunteering contact: Katie Dunn at Katherine.dunn.1.ctr@us.af.mil or 937-938-4642


JOB SHADOW DAY - WPAFB Educational Outreach Office	
What is Needed: 	Mentors for WPAFB Job Shadowing Day —Here is a volunteer opportunity that showcases a variety of WPAFB careers. Students from the local area will meet at the National Museum of the US Air Force. The students are partnered with their pre-determined host (You!!) who will take them to their job site for a “ <i>job shadow</i> ” experience before returning to the museum in the afternoon.
When:	October 26, 2018
Grade Level:	High School Juniors and Seniors
Location:	National Museum of the US Air Force and mentor’s job site
Time Requirement:	Approximately 8:30 a.m.—2:30 p.m.
How to Apply:	Contact: Kim Stultz, Kimberly.Stultz.ctr@us.af.mil or phone 937-938-4861 Register: https://www.surveymonkey.com/r/js2018fall
Other Information:	We would like mentors for approximately 100+ students at this event. Mentors can accept as many students as they are comfortable managing. (i.e. you can show around more than one Student at a time!)


SEMEDS – Scanning Electron Microscope EducatorS	
What is Needed: 	Volunteers to work with the students using the Scanning Electron Microscopes . Students and volunteers experience firsthand what it’s like to use a \$500,000 microscope to explore a wide variety of unique and everyday specimens. SEMEDS is a two-hour after school program for high school and middle school students. Each session can accommodate 18 students; 2 sessions are offered each month.
When:	October-June
Grade Level:	All K-12 grades (mostly middle school)
Location:	Area B, Bldg. 653
Time Requirement:	Sessions run from 4:30-6:30 p.m. two times a month. We ask that each volunteer participate twice throughout the school year (October-June).
Training Requirement:	Two hour volunteer training session.
How to Apply:	Contact: Kim Stultz, WPAFB Educational Outreach Office Email: Kimberly.Stultz.ctr@us.af.mil or phone 937-938-4861

READ ACROSS AMERICA - WPAFB Educational Outreach Office	
<p>What is Needed:</p> 	<p>Escorts and Readers for Annual "Read Across America" Event Hosted by the National Museum of the US Air Force</p> <p>If you like to work with elementary school children, then this opportunity is for you!! "Read Across America" is an annual reading event celebrating the birthday of Dr. Seuss. Reading stations will be set-up throughout the museum and volunteers will read aviation related and Dr. Seuss stories to local elementary school children as their escorts help them rotate through the reading stations. Approximately 500 students are expected each day of the 2 day event.</p> <ul style="list-style-type: none"> -Escorts will stay with each school group and make sure they get to the next station in a timely manner! -Readers will take turns reading selected stories to school groups as they rotate through the museum.
When:	February 28 and March 1, 2019
Grade Level:	2 nd & 3 rd graders
Location:	National Museum of the US Air Force
Time Requirement:	READERS: Approximately 2 ½ hours, with student groups from 9:30-11:45 a.m. ESCORTS: Approximately 3 ½ hours. Escorts stay with their group the entire morning. All volunteers must arrive approximately 20 minutes earlier than shift start for placement.
Training Requirement:	None
How to Apply:	Contact: Kathy Emrick, WPAFB Educational Outreach Office Email: Katherine.Emrick.ctr@us.af.mil or phone 937-938-4860

ACADEMIC TUTORS AND MENTORS – WPAFB Educational Outreach Office	
<p>What is Needed:</p> 	<p>The WPAFB Educational Outreach Office often receives requests from local schools for academic tutors to assist students in basic and advanced skills in mathematics, science, language arts, foreign languages, etc. Volunteer tutors are needed to fulfill these requests.</p> <p>The WPAFB Educational Outreach Office also provides volunteers for a variety of area school mentoring programs. Opportunities are available to assist local students with various STEM activities such as Science Fair projects, Science Olympiad coaching, etc. Mentors coordinate their schedule with the requesting school according to their availability.</p>
When:	On-going
Grade Level:	K-12
Location:	Local area
Time Requirement:	Variable. Arrangements are made directly with student's school and can sometimes be scheduled at your convenience
Training Requirement:	Possible orientation or other training at certain schools
How to Apply:	Contact: Kathy Emrick WPAFB Educational Outreach Office, Email: Katherine.Emrick.ctr@us.af.mil or phone 937-938-4860

SCIENCE FAIRS - WPAFB Educational Outreach Office	
What is Needed: 	Judges and Volunteers for Local/Regional/ State Science Fairs
When:	October–May
Grade Level:	All grades
Location:	Local schools
Time Requirement:	One-time event, typically 2-3 hours
Training Requirement:	For judging, short written instructions plus a quick briefing are typically given at schools prior to judging. For first time judges, no worries, schools team you with experienced judges.
How to Apply:	Contact: Kim Stultz, WPAFB Educational Outreach Office Email: Kimberly.Stultz_ctr@us.af.mil or phone 937-938-4861

CLASSROOM SPEAKERS - WPAFB Educational Outreach Office	
What is Needed: 	Volunteers who are willing to be Classroom Speakers and share their expertise, job information, or an area of interest with local students in a variety of settings, to include school career days, classroom presentations, and lunchtime presentations at local schools, our DoD STARBASE facility in the Prairies Community Center, etc.
When:	On-going
Grade Level:	All K-12 grades
Location:	Local area
Time Requirement:	Flexible, based on your availability
Training Requirement:	None
How to Apply:	Contact: Kathy Emrick WPAFB Educational Outreach Office Email: katherine.emrick_ctr@us.af.mil or phone 937-938-4860

LEGACY - WPAFB Educational Outreach Office	
What is Needed: 	Mentors in all areas of STEM research to give high school students real-world, hands-on experience in a professional environment. Camp volunteers to lead hands-on demonstrations and share how they relate to real-world applications.
When:	Summer 2019
Grade Level:	Mentors: 10-12th grade; Camp volunteers: 6-10th grade
Location:	Mentors: YOUR workplace; Camp: STARBASE facility
Time Requirement:	Mentors: Flexible 6-8 weeks; Camp: Flexible 1-2 hour time slots
Training Requirement:	Training can be available for mentors. Mentors will need to submit a task plan for student projects.
How to Apply:	Contact: AF LEGACY team Email: AFRL.EN.Legacy@us.af.mil