

ARCTOS awarded 5-year, follow-on WPAFB Educational Outreach contract leading K-16 STEM programs

DAYTON, OHIO—Building on 18 consecutive years serving the Air Force Research Laboratory (AFRL) Educational Outreach (EO) Office at Wright-Patterson Air Force Base (WPAFB), ARCTOS Technology Solutions (ARCTOS) was awarded the five-year, \$8 million follow-on contract to continue leading the EO Office's portfolio of K-16 Science, Technology, Engineering, and Mathematics (STEM) programs and events.

ARCTOS develops, plans and executes student learning experiences that embody the EO Office mission of inspiring student awareness and career exploration of all fields in STEM, aviation and aerospace to develop and expand the future scientific and technical workforce. To support this contract, ARCTOS provides a team of STEM-licensed educators and professionals with technical backgrounds in current Department of Defense (DoD) science and technology programs. By integrating these teaching credentials and the company's firsthand experience executing government STEM programs alongside Air Force personnel, ARCTOS delivers engaging STEM programs and events across the state of Ohio that align with state curriculum guidelines and national math and science standards, including:

- **FIRST® Tech Challenge (Grades 9-12):** Serves as Lead Ohio Partner in executing tournament in which students design, build, and program robots to compete in an alliance format against other teams
- **FIRST® LEGO® League Challenge (ages 9-14):** Robotics program in which students are introduced to a scientific and real-world challenge for teams to focus and research on in competition at the state level
- **FIRST® LEGO® League Explore (ages 6-10):** Introduces elementary students to robotics, teamwork and STEM activities
- **Wizards of Wright! (WOW!) Teacher Workshops:** In-person and remote STEM lesson plans presented by teachers or AFRL subject matter experts
- **Read Across America:** Two-day reading event gathering AFRL and community volunteers to read stories to second and third grade students
- **Scanning Electron Microscope Educators (SEMEDS):** Applied research opportunity for elementary students to visit an AFRL laboratory at WPAFB and operate state-of-the-art scanning electron microscopes under the guidance of STEM experts
- **Job Shadow Day:** Career exploration event for high school juniors and seniors to visit WPAFB to shadow STEM professionals
- **Science Fair Program:** School Science Fairs with student presentations and competition evaluated by guest judges from the STEM field
- **Virtual Career Speaker Sessions:** Live remote presentations by AFRL personnel speakers, video-streamed to the classroom for a discussion on the day-in-the-life of a STEM professional
- **Tutoring and Mentorship Program:** Pairing students with AFRL STEM personnel for tutoring and individualized attention in requested class subjects



- **Tournament in a Trailer Program:** Ohio schools interested in hosting FLL events are provided fully stocked and prepared trailers containing the necessary materials for execution

“The application of STEM technologies and practices is the lifeblood of our ARCTOS Technology Solutions business and a driving force in the future of defense,” said Joe Sciabica, ARCTOS Chief Technology Officer. “ARCTOS is honored to continue sharing our passion for STEM with younger generations through creating immersive learning experiences and career exploration opportunities under the Educational Outreach program.”

Prior to 2020, ARCTOS conducted the majority of the STEM events in-person; however, at the onset of the COVID-19 pandemic, ARCTOS rapidly pivoted all events to a virtual model to successfully execute on all event dates as originally planned. The team used live video streaming technologies, green screens, virtual speakers and event itineraries, as well as social media to recreate the in-person experience for students logging in from home or the classroom. ARCTOS also created ready-to-implement STEM lesson plans and materials for teachers to present, in addition to pre-recorded presentations from AFRL subject matter experts. Through close collaboration with the EO Office and their vision, ARCTOS achieved record milestones in creativity, presentation options, community engagement and geographic reach.

For more information about ARCTOS Technology Solutions, visit arctos-us.com.

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ARCTOS Technology Solutions is the Dayton-Ohio-based business unit of ARCTOS, LLC (ARCTOS) with Corporate Headquarters in Tampa, Florida. ARCTOS is a global aviation services and technology solutions provider to the defense, aerospace, and intelligence markets. In service to the U.S. Armed Forces and foreign allies, we deliver full lifecycle system support from R&D to sustainment—applying enabling technologies such as digital engineering, data analytics, cyber operations, modeling and simulation, and model-based systems engineering.