

AEDC Educational Tour Program

About the Program

Arnold Engineering Development Center's educational tour programs are designed to **SPARK** the interest of students, and keep student's **MINDS IN MOTION**.

The programs' mission is to increase the level of outreach to educators and students and help motivate today's students to become tomorrow's engineers and scientists.

Students will learn about the work AEDC does and its importance to America's air and space superiority. Students also have the opportunity to interact with members of the Air Force and other center employees and ask specific questions about flight, educational requirements and military life.

All educational programs provide students the opportunity to participate in hands-on demonstrations and tour different testing facilities on base.

SPARK

AEDC's **Spark** program is designed for elementary students in third, fourth and fifth grades. A hands-on demonstration teaches students about the aspect of flight which is tied directly to the testing conducted at AEDC. The **Spark** demonstration and tour take about two and a half hours.

- Class Size Limit: 45 (including chaperones)
- Chaperone-to-Student Ratio: At least 1:10



MINDS IN MOTION

AEDC teamed with the University of Tennessee Space Institute to develop an educational outreach program designed specifically for eighth grade students called **Minds in Motion**. The students' time is divided between AEDC and UTSI. At both locations students tour facilities and participate in hands-on-demonstrations which are tied to the work done at each location. Participation in **Minds in Motion** involves an entire school day.

- Group Size Limit (per day): 175 (including chaperones)



- Groups larger than 175 must come on separate days
- Chaperone-to-Student Ratio: At least 1:20

Requirements

All students, chaperones and bus drivers participating in any AEDC educational tour must complete a Hold Harmless Agreement form. A Talent Release form must be completed for each minor and signed by parents/guardians prior to touring AEDC. Due to Arnold Air Force Base security requirements, chaperones or parents cannot be added to the tour any later than three days before the tour date.

Tours are conducted using the group's transportation - a small shuttle or a bus. Please ensure you arrive on one bus with enough room for the tour escort. Multiple cars or a caravan of vehicles are not allowed for touring.

AEDC educational tours must be scheduled two weeks in advance. For more information or to schedule a tour date, please contact the ATA Public Affairs office at (931) 454-5942.

About AEDC

The Air Force's Arnold Engineering Development Center (AEDC) located at Arnold Air Force Base, Tenn., is the nation's premier aerospace ground flight test simulation facility. AEDC also has remote operating locations at the Hypervelocity Tunnel 9 in Silver Spring, Md., and the National Full-Scale Aerodynamic Complex (NFAC) at Moffett Field, Calif.

The center has test facilities ranging from large wind tunnels and altitude jet and rocket test cells to space chambers, ballistic ranges, arc heaters and small research test cells. These unique test facilities can simulate conditions from sea level to space and from subsonic to hypersonic speeds up to Mach 20.

Since it was dedicated by President Harry Truman in 1951, AEDC has played a key role in the development of all high performance military jet aircraft, missile and space systems used by the Air Force, Navy, Marines and Army. AEDC tested all the manned space programs from Project Mercury to the space shuttle and many commercial aircraft.

AEDC is named after five-star General of the Air Force Henry H. "Hap" Arnold, World War II commander of the Army Air Force and the only Airman to reach the rank of five-star general.

