

# 2020 Youth Programs Residential Camps

## *Teen Aviation & Space Camps*

2020 Air Force Youth Programs POCs:

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**Air Force Teen Aviation Camp – completed application must be submitted by 6 April 2020**  
15-21 June 2020 - United States Air Force Academy (USAFA)

**Air Force Space Camp – completed application must be submitted by 6 April 2020**  
Session 1: 19-24 July 2020 - Huntsville, AL  
Session 2: 26-31 July 2020 - Huntsville, AL

**Eligible Applicants must meet all the following requirements:**

- Dependent of an AF Active Duty or Active Duty Military assigned to/living on an Air Force installation or AF-led Joint Base, Air Force Reserve (AFR), Air Force National Guard (ANG), DoD Civilian Employees (APF or NAF) assigned to/working on an Air Force installation or AF-led Joint Base, or Air Force Retirees (on a space available basis)
- Have a valid picture ID (ex. military ID, driver's license, school ID, or passport)
- Have not previously attended the camp for which they are currently applying

**Priority Consideration for Applicants:**

1. Dependent with a parent/guardian who meet the criteria in item 2 or 3 AND who were deployed in support of a contingency operation for a minimum of 30 calendar days within the past six months
2. Dependent of Active Duty Air Force or Other Active Duty assigned to/living on AF installation or AF-led JB
3. Dependent of AFR or ANG on Title 10 or Title 32 Orders
4. Dependent of AFR or ANG
5. DoD Civilians (APF/NAF) assigned to/working on AF installation or AF-led JB
6. Tie Breaker:
  - previous camp attendance
  - date of birth, with priority provided to eldest applicants first
7. SPACE AVAILABLE BASIS: Dependents of Air Force Retirees

**The PDF application must be submitted by a parent or guardian through the AF Camps workflow box at: [AFSVC.SVPY.Camps@us.af.mil](mailto:AFSVC.SVPY.Camps@us.af.mil)**

**It is the parent/guardian's responsibility to confirm receipt of the application.**

**Air Force Teen Aviation Camp:** This camp provides youth, who completed their Freshman or Sophomore year in high school at the end of School Year (SY) 2019/2020, opportunities to explore careers in the Air Force and as aviators. Aviation Camp will be conducted 15-21 June 2020 at the Air Force Academy (USAFA), Colorado Springs, CO.

Participants will arrive in Colorado Springs, CO after 1200 hours on Wednesday, 15 June 2020 and must depart before 1300 hours on Tuesday, 21 June 2020. The only exception is for OCONUS participants traveling from Asia or Europe; who may arrive in Colorado Springs, CO on Tuesday, 14 Jun 2020.

Spending money is the responsibility of the participants.

Transportation, lodging, meals, and all program expenses are centrally funded.



**Air Force Space Camp:** This camp provides youth, 12 - 18 years of age, opportunities to explore careers as astronauts. Youth have the opportunity to select from five different Academies; see below for descriptions. Space Camp is held at the US Space and Rocket Center, Huntsville, AL. Two sessions are offered: 19-24 July 2020 and 26-31 July 2020. All applicants must be age-eligible for the chosen camp on or before the first day of attendance. Please note, high school graduates are not eligible.

Session 1 participants (19-24 July 2020) will arrive in Huntsville, AL no later than 1330 hours on Sunday, 19 July 2020 and must depart no earlier than 1500 hours on Friday, 24 July 2020. The only exception is for OCONUS participants traveling from Asia or Europe; these participants may arrive in Huntsville, AL on Saturday, 18 July 2020.

Session 2 participants (26-31 July 2020) will arrive in Huntsville, AL no later than 1330 hours on Sunday, 26 July 2020 and must depart no earlier than 1500 hours on Friday, 31 July 2020. The only exception is for OCONUS participants traveling from Asia or Europe; these participants may arrive in Huntsville, AL on Saturday, 25 July 2020.

Transportation costs to/from Huntsville, AL and spending money are the responsibility of the participants. Lodging, meals, and all program expenses are centrally funded and begin upon arrival.

### **Space Academy (12 - 14 years of age)**

Session 1: 20 participants and Session 2: 20 participants

Launch on missions to the International Space Station, the moon or Mars! Train like an astronaut on the 1/6th Gravity Chair and the Multi-Axis Trainer. Design, build and launch a team rocket. Learn teambuilding skills on the low elements at our Space Camp Challenge Course and in one of our water facilities! Put your creative thinking skills to work in our engineering design challenges! Hear the inspiring stories about commercial pioneers like Elon Musk, founder of SpaceX!

### **Advanced Space Academy (15-18 years of age)**

Session 1: 32 participants

Train like an astronaut on the 1/6th Gravity Chair and the Multi-Axis Trainer. Design, build and launch a team rocket, and safely recover its payload. Learn teambuilding skills on the high elements at our Space Camp Challenge Course. Experience neutral buoyancy while SCUBA diving in the Underwater Astronaut Trainer! (Pending physician approval). Test your skills in our Engineering Challenges by constructing a heat shield and building a Rover. Fly jet aircraft simulators! Discover the role the International Space Station plays in our global community. Prepare for every contingency as you go to Mars on an extended-duration mission simulation! Earn one credit hour of freshman-level general science from University of Alabama in Huntsville in this college-accredited program!

### **Robotics Academy (12 - 14 years of age)**

Session 1: 16 participants and Session 2: 16 participants

Program robots to interact with the world using a variety of sensors and motors. Hands-on sessions in robot chassis design and building algorithms, remote-control design and operation and aerial operations make for an exciting adventure. Master managing wireless signals in order to control and pilot robots on the Challenge Table. Choose from optional lessons such as building robotic attachments, programming with sensors and data functions, or using both tactile and touchless Human Interface Devices. Use the binary number system and basic logic functions to understand how machines "think". Design, build and pilot underwater robots. Train in cutting-edge, custom-designed Unmanned Aerial Systems training simulation and fly quadcopters.

**Mach II (12-14 years of age)**

Session 1: 16 participants and Session 2: 16 participants

Experience the unique sensation of feeling three times your normal weight in our one-of-a-kind centrifuge! Learn about aeronautics, propulsion and aviation history. Fly in a UAV drone simulator to reinforce lessons learned at our static displays and artifacts. Master aerial combat and compete to be the best of the best in Top Gun! Embark on a search and rescue mission to bring a downed pilot back from behind enemy lines while communicating as a team and evading hostile forces!

**Mach III (15 - 18 years of age)**

Session 1: 16 participants

Unite as a team at the Space Camp Challenge Course with high and low ropes elements. Brave the centrifuge, the 150-ft. zip line, and all of our training simulators! Reinforce leadership, teamwork and decision-making skills in our immersive F-18 cockpit simulators. Use a UAS simulator to plan for missions and provide real time data to a command center during mission execution. Learn wilderness survival skills and orienteering. Plan and carry out three missions, each with their own challenges! Compete to be the best in a bracket style head to head competition where only the best can claim the title of Top Gun.

**US Cyber Camp (15 - 18 years of age)**

Session 2: 4 participants

The newest STEM Camp at the Space and Rocket Center! Delve into the world of cyber technologies through blended hands-on experiences and challenges introducing careers and professionals in the cyber field, tour Redstone Arsenal and build a Raspberry Pi computer you can take home! Build computers and networking systems. Explore coding using Raspberry Pi. Learn fundamentals of Python programming within a Linux environment. Defend systems against cyber threats. Engage with cyber professionals to learn about cyber careers!

