

YOU ARE THE TALENT OF TOMORROW

Students your age are the engineers, scientists, and coders of the future—and someone like you will grow up to build innovative systems for aviation, defense, and space exploration.



International Space Station orbiting Earth

Launch | AEROSPACE ENGINEER

Do you think that rockets naturally know where to go when they lift off? Aerospace engineers plan how rockets launch and how spacecraft operate in orbit and beyond Earth's gravitational pull. They are working on the science, technology, and math that will get astronauts to Mars!

- ★ What can we learn from exploring space?
- ★ What factors do engineers need to consider when they build rockets that carry astronauts?



NASA autonomous Global Hawk drone helping monitor forest fires and atmospheric phenomena

Navigation | ELECTRICAL ENGINEER

Ever wonder who develops the state-of-the-art navigation systems that support safe air travel? Electrical engineers do! They design, troubleshoot, and test innovative electrical equipment for spacecraft or aircraft. Today's electrical engineers are developing unmanned aircraft systems, which fly by remote control—even from miles away.

- ★ What steps need to be taken before we have unmanned passenger airplanes?
- ★ What beneficial uses can you imagine unmanned aircraft systems providing?



Global cybersecurity center

Protection | SOFTWARE DEVELOPER

Do you know who protects your information and identity on the Internet, social media, and more? Software developers are programming specialists who use math and computer science expertise to keep information systems safe and protected against increasing cyber (online) threats. Aerospace companies need cyber professionals to develop the security software of the future to maintain the safety of air transportation and of space and defense operations.

- ★ Why is cybersecurity necessary for our safety?
- ★ What kinds of information do these systems protect?

Speed | MECHANICAL ENGINEER

Planes, ships, and rockets move pretty fast—but how? Future mechanical engineers will invent safer, more efficient, and higher performance propulsion (the force that makes things move) systems to power vehicles from the depths of the ocean to the far reaches of space. A student like you who enjoys building things and completing hands-on projects will find better ways to propel these machines forward.

- ★ How will the world benefit from faster and more powerful ships, planes, and spaceships?
- ★ What will more efficient engines help us do?



Jet engine

THINK LIKE AN AEROSPACE PROFESSIONAL.
WHERE COULD THE AEROSPACE FIELD TAKE **YOU?**

Brought to you by



Collins Aerospace

NORTHROP GRUMMAN



LOCKHEED MARTIN



Huntington Ingalls Industries

