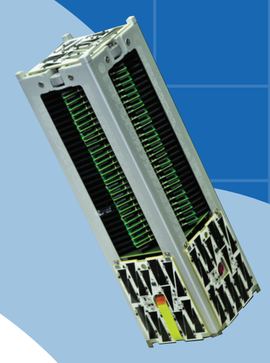
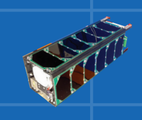
National Aeronautics and Space Administration

NASA CubeSat Launch Initiative



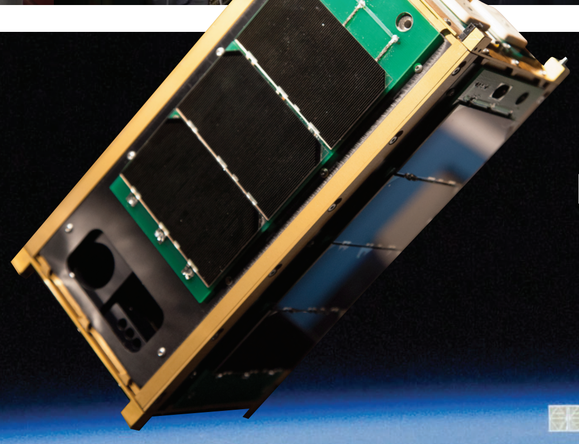


NOT READY
TO BUILD YOUR OWN
SPACESHIP?

Start building your own satellite!

CUBESAT FACTS

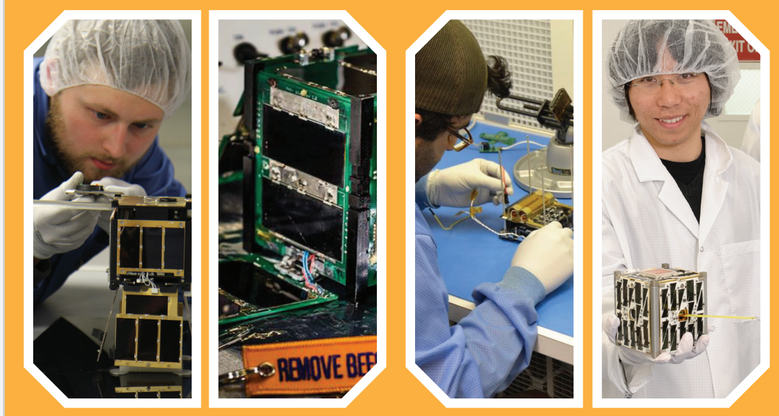
- Built to standard dimensions of 1 unit (1U), which is equal to 10x10x10 cm
- Can be 1U, 2U, 3U or 6U in size
- Weigh less than 1.33 kg (3 lbs) per U – 6U may be up to 12-14 kg



For more information:
http://go.nasa.gov/CubeSat_initiative

Twitter: @NASAExplores

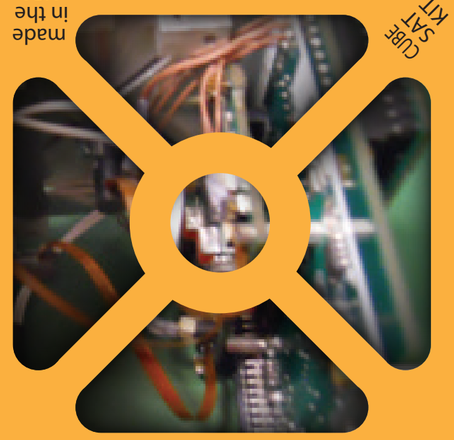
www.nasa.gov



"The opportunity to design, build, test, and operate a satellite, all while obtaining my degree, is unparalleled in the history of mankind. I cherish the long hours spent in the cleanroom because I understand the experience I've gained will not only serve me for the rest of my professional career, but will continually be a source of pride and confidence in what I'm able to accomplish as a person."

~ Jason Rexroat, University of Kentucky | Electrical and Computer Engineering | Hometown: Nicholasville, KY

FOR MORE INFORMATION: HTTP://GO.NASA.GOV/CUBESAT_INITIATIVE TWITTER: @NASAEXPLORES



OVERVIEW

The CubeSat Launch Initiative (CSLI) enables the launch of small research satellites or CubeSats designed, built and operated by students, teachers and faculty to obtain hands-on flight hardware development experience.

CSLI also provides a low-cost pathway to space for CubeSats developed by U.S. non-profit organizations and accredited educational organizations giving all these developers access to conduct research in the areas of science, exploration, technology development, education or operations.

Since its inception in 2010, the initiative has selected more than 100 CubeSats from primarily educational and government institutions around the U.S. These miniature satellites were chosen from proposers that responded to public announcements on NASA's CubeSat Launch Initiative. NASA announces a call for proposals each year in mid-August.

Proposed CubeSat investigations must address an aspect of science, exploration, technology development, education, or operations encompassed by NASA's strategic goals and outcomes as identified in the NASA Strategic Plan and/or the NASA Education Vision and Goals. Participation in the CubeSat Launch Initiative will be contingent upon selection by NASA and negotiation of an appropriate Agreement between NASA and the Collaborator.

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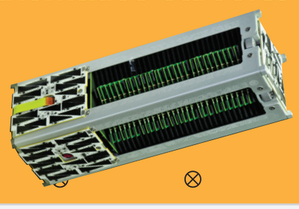
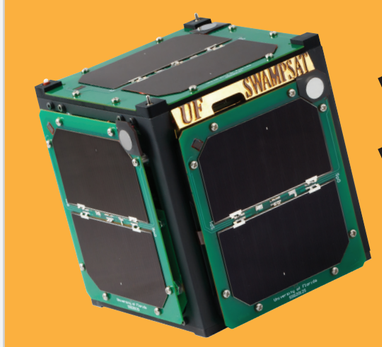
Develop the necessary skills and experience needed to succeed in Science, Technology, Engineering, and Mathematics careers.



BASIC CUBESAT FACTS



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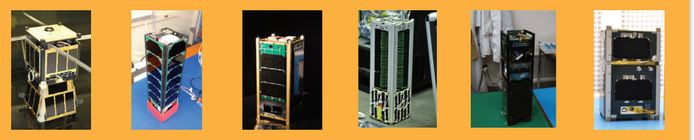
CUBESAT DEPLOYMENT

The CubeSats are deployed from standard Poly-Picosatellite Orbital Deployers (P-POD) from an expendable launch vehicle or from a deployer mechanism off the Kibo robotic arm on the International Space Station. After the CubeSats deploy their transmitters turn on and ground stations listen for their beacons, determine their small satellites' functionality and announce operational status. CubeSat mission durations and orbital life vary, but are anticipated to last at least 90 days. Upon mission completion, the CubeSats fall to Earth, burning up in the atmosphere.



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BENEFITS

BENEFIT TO EDUCATIONAL ORGANIZATIONS AND NON-PROFITS:

Enables students, teachers and faculty to obtain hands-on flight hardware development experience

Advances the development of technologies

Provides mechanism to conduct scientific research in the space environment

Provides meaningful aerospace and Science, Technology, Engineering and Mathematics (STEM) educational experience

BENEFIT TO NASA:

Promotes and develops innovative public-private partnerships

Provides a mechanism for low-cost technology development and scientific research

Enables the acceleration of flight-qualified technology assisting NASA in raising the Technology Readiness Levels (TRLs)

Strengthens NASA and the Nation's future STEM workforce

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