The Laboratory for Atmospheric and Space Physics (LASP) is a full-cycle space research institute, combining all aspects of space exploration through our expertise in science, engineering, mission operations, data management, and education. The laboratory is a leader in atmospheric and space research, focusing on planetary science, solar terrestrial physics, atmospheric sciences, and space physics.

**Science drives exploration**
LASP scientists develop areas of focus for space, aircraft, and high-altitude balloon missions; our researchers define the technology required to collect data and answer scientific questions. LASP is currently involved in twenty-two missions already in space and fourteen others that are under development.

**Engineering supports scientific endeavors**
LASP has the in-house engineering capabilities and facilities to support the design and manufacture of space-based and suborbital instruments and small to Discovery-class spacecraft for LASP and partner institutions. LASP has developed scientific instrumentation for dozens of deep-space and Earth-orbiting spacecraft missions, 200 sub-orbital rocket flights, and more than 20 airborne experiments.

**Mission Ops retrieves, processes, and delivers data**
LASP mission operators, software engineers, and data systems experts manage the day-to-day mission and science operations for spacecraft and instruments. In addition, LASP is responsible for the delivery of scientific data to scientists and the public, continuing the cycle of space exploration. LASP currently operates four NASA satellites and more than 140 space science instruments.

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**Quick Facts**

- **Research awards**: $114M in FY 2018
- **Employees**: 435 professionals and 145 students
- **Current missions**: MAVEN—Mars; AIM—Upper Atmosphere; SORCE—Sun-Earth
- **LASP has built 35 instruments for 18 operating missions**: CSIM, MinXSS-2, Parker Solar Probe, GOES-16 & 17, GOLD, TSIS-1, MMS, MAVEN, STPSat-3, Van Allen Probes, SDO, New Horizons, AIM, SORCE, THEMIS, TIMED, Voyager
- **LASP is developing 15 instruments for 13 missions**: NASA: TSIS-2, Europa Clipper SUDA, MatISSE LAMA, CLARREO, FOXSI, IMAP, CIRBE, CTIM, CUTE, SPRITE, NOAA: GOES-T & U EXIS
- **UAE: Emirates Mars Mission EXI, EMUS**
- **Current mission operations**: AIM, SORCE, CSIM, MinXSS-2
- **Planets visited**: All eight, plus Pluto and beyond (Voyager)
- **Colorado economic impact**: 300 local suppliers

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**Students are involved at all levels**
The laboratory currently employs 145 University of Colorado Boulder undergraduate and graduate students, who are integrated into work teams in all areas of LASP operations. They are the next generation of space professionals: scientists, engineers, and mission operators—the future experts of space exploration.

For more about current accomplishments at LASP, visit [http://lasp.colorado.edu](http://lasp.colorado.edu).