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-one missions already in space and fifteen 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 twelve deep-space missions, sixteen Earth-orbiting 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.

**Quick Facts**
- **Research awards:** $131M in FY 2017
- **Employees:** 430 professionals and 175 students
- **Current missions:** MAVEN—Mars; AIM—Upper Atmosphere; SORCE—Sun-Earth
- **LASP has built 32 instruments for 15 operating missions:**
  - GOES-17, GOLD, TSIS-1, GOES-16, MMS, MAVEN, STPSat-3, Van Allen Probes, SDO, New Horizons, AIM, SORCE, THEMIS, TIMED, Voyager
- **LASP is developing 21 instruments for 16 missions:**
  - NASA: TSIS-2, PSP, Europa Clipper SUDA, MatISSE LAMA, CLARREO, FOXI/SPS, CSIM, CTIM, CUTE, MinXSS-2
  - NOAA: GOES-T & U EXIS
  - UAE: Emirates Mars Mission EXI, EMUS
- **Current mission operations:**
  - AIM, Kepler, SORCE, QuikSCAT
- **Planets visited:** All eight, plus Pluto and beyond (Voyager)
- **Colorado economic impact:** 300 local suppliers

**Students are involved at all levels**
The laboratory currently employs 175 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).