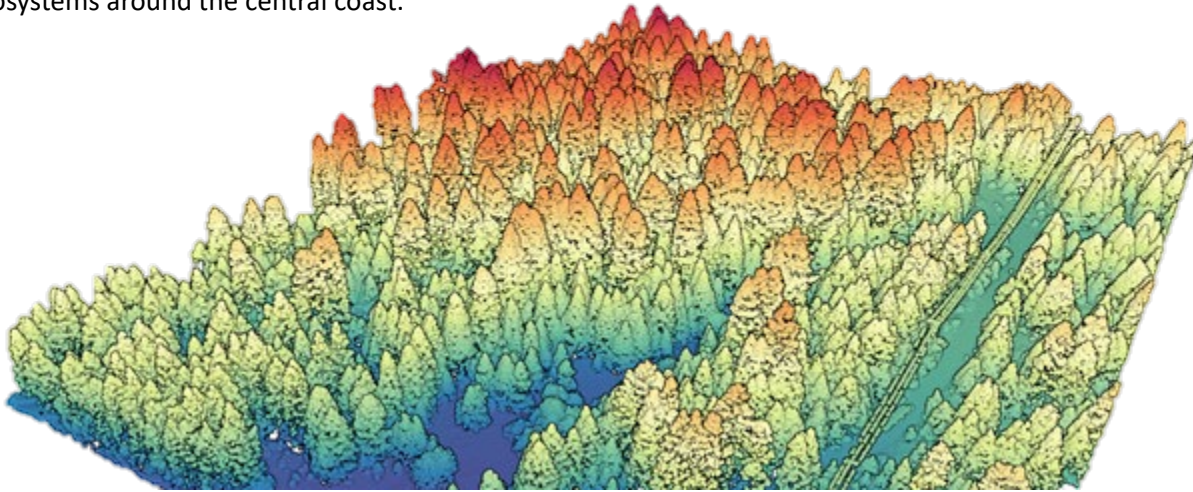


Seeking Research Lab Assistants

Cal Poly Geospatial Systems Lab (GSL)

The Cal Poly GSL is seeking students to assist with the collection of aerial laser scans (LiDAR) and imagery of fire-prone ecosystems around the central coast.



Both paid and volunteer positions are available. Starting rate for paid positions is @\$15/hr. Research work will be intermittent through fall, winter, and spring quarters – primarily on weekends when weather conditions permit. Hours per week will be variable, usually from 0-10 hrs/wk. Tasks, depending on assignment, will include aircraft and sensor system maintenance and flight preparation, flight mission planning, physical measurement of wildland plant canopies and fuel characteristics, establishing ground control points (GCPs) for aerial surveys using survey-grade GPS, data processing (preparation and analyses of LiDAR point clouds, photogrammetry of aerial imagery, and multispectral analyses), and GIS mapping of survey areas and production of information products. Research team members will have opportunities to work on most of these tasks over time.

The GSL is currently operating two aircraft: An AeroVironment Vapor 55 helicopter (electric) and an Inspired Flight Technologies IF1200A heavy lift hexacopter (electric). Interested students will be provided training/support in obtaining their FAA Part 107 Commercial Remote Aircraft certifications.

Field team members will receive training in conducting surveys for establishing ground control points, conducting topographical surveys, and using total stations to measure dimensions of objects in the survey area.

The data team will be working with ArcGIS Pro, ArcGIS Online (and the Field Maps mobile app), ArcGIS Drone2Map, UgCS, and Metashape Pro, as well as POSpac (Trimble) and Cloudstation (Yellowscan).

For more information on LiDAR, see <https://www.youtube.com/watch?v=EYbhNSUnIdU&t=6s>.

Students who already have commitments but would like to help on an occasional as-needed basis are welcome to participate as team members.

For more information, please contact:

Professor Marc Horney (mhorney@calpoly.edu; 010-101)

Professor Andrew Fricker (africker@calpoly.edu; 047-012P)

