

The JPL CubeSat Development Laboratory

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Critical for the success of spacecraft based on the cubesat paradigm (compact, rapid, low resource packages utilizing standardized deployers and involving a higher yet acceptable level of risk) is a successful cubesat development model. In keeping with its commitment to be at the forefront of scientifically driven space exploration, JPL is in the process of setting up the Cubesat development Lab, a collection of capabilities supplementing Cubesat Formulation facilities. Many of these capabilities are located adjacent to one another, to support cubesats in every stage of development, from planning to final integration and testing. To date, the facility consists of a meeting/planning room and a clean room used to build and integrate the flight model, with bench space for up to 5 cubesats. CubeSats utilizing this facility to date include: MarCO (to be deployed by the Mars Insight mission before landing), and three Earth orbiting missions (ASTERIA, MASC, and Raincube). JPL's vision of the role of cubesats in science-driven exploration are provided at <http://www.jpl.nasa.gov/cubesat/info.php>.