








Your student's experiment

**RUNS HERE**

LEVEL III

## ISS SPACE LAB

-  Will prepare technical documentation reviewed by NASA and manifested on rocket launches
-  Applied Mechanical Engineering Principles: define, design and build the experiment within the confines of the MicroLab
-  Applied Electrical Engineering Principles: to design electrical circuits, draw schematics, build layout, and test printed circuit boards
-  Software Programming: writing code so your experiment can run autonomously aboard the ISS
-  Project Management: collaboratively select experiment, implement project milestones, assign tasks, and ensure delivery of quality experimental payload ready for launch
-  VIP access to rocket launch viewings
-  Students are mentored by industry professionals, college professors, and/or research scientists



**Level 3 ISS Space Lab** is a 9 month hands-on experience for students 14 - 18 years of age. It is the culmination of the Quest for Space Programs with students going through an entire engineering research process from concept to data analysis, including the physical launching of their experiment which will be installed on the ISS for 30 days. The research and planning stage require that each student team draft documentation that must be reviewed and approved by NASA so that their experiment can be manifested on NASA's flight plans. It's at this level that students get to use their creativity and technical skills to investigate solutions to real-world problems while using the latest technology on the ISS. Students may obtain Industry recognition by presenting their research at ASGSR or ISS R&D conferences.



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