



“Design It! Build It! Launch It!”

The International Space Station Project



Application Process and Instructions for Students and Parents:

1. Read this Project Overview including the Project Goals, Project Description, Student Time Commitments, and Participation Fee.
2. Complete the Application Form-Part I (page 3).
ALL APPLICATIONS MUST BE EMAILED BY 5 p.m. on August 23, 2013, to:
jeffrisbee@girlscouts-hawaii.org.
3. All applicants will be interviewed by a GSH representative. Girls will be notified of their interview date/time after receipt of the application.
4. GSH will review all applications and notify each applicant of her status as team member **via email by 5 p.m. on August 27, 2013**. Mentors will place each student in a specific role on the ISS Project Team based on experience, education and desire to learn new things.
5. Follow-up information and payment options will be sent upon acceptance to the program.

PROJECT OVERVIEW

PROJECT GOALS

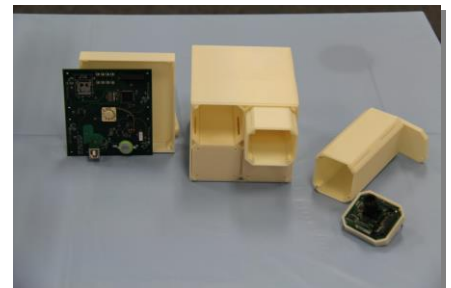
Be part of the premier leadership experience in Hawai'i as Girl Scouts:

- Learn how to plan, develop, test, document and launch a MicroLab space experiment aboard the International Space Station (ISS) in a microgravity environment.
- Develop and produce a photo and video documentary of the entire project.
- Learn program management skills.
- Work as a team while collaborating with other groups to make a multi-payload NanoLab.

PROJECT DESCRIPTION

The NanoLab experiment is expected to fly to the U.S. National Laboratory on the International Space Station during the 1st Quarter of 2014 and be in operation in the 2nd Quarter. The project begins immediately with the selection of student teams/groups from grades 9-12. Girls will work as a team to plan, design, build, program, test, flight-qualify, launch, operate and document any payload module experiments to interface with the NanoLab Master Controller.

The payload modules are contained within the NanoLab enclosure with a USB connector. The unit will be connected to the NanoRacks (our ISS interface) and then to the ISS crewmember's computer via a USB cable. Once the payloads are installed and powered on, the data will be downloaded to the students on a prescribed download schedule each week for a



minimum of 30 days. Girls will aggregate and analyze their data each day upon transmission to earth.

The project steps will be recorded in a photo and video documentary that will be produced by the girls. The girls will likely be involved with a variety of local, national and international media coverage (radio, TV, web, print). The project will culminate with a report that will be presented at the Annual Cal Poly Spring CubeSat Workshop.

STUDENT TIME COMMITMENT

The program will run from **September 2013 to May 2014**, and will be guided by Girl Scouts of Hawai'i (GSH).

Meeting Schedule: Since the launch date is expected to be in early 2014, our student team will need to meet every week from September to November 2013. From late November 2013 to January 2014, meeting dates and times may occur during some school/intersession holidays in order to prepare the project for final pre-flight testing. There may be additional meetings required, as needed, to meet the program launch. From March to May 2014, the project will be tracked and data will be analyzed. Meetings will be scheduled as required based on data collection.

Information Session/Kick-Off Meeting: There will be an informational meeting for parents, advocates and participants on **Friday, September 6 from 4-7 p.m.** at the GSH Ala Moana office.

The first Girl Team meeting will be on **Sunday, September 8 from 12-4 p.m.** They will then meet **every Sunday through most of November from 12-4 p.m.** at either the GSH Ala Moana headquarters or a lab facility at another location. Directions will be given in advance.

PARTICIPATION FEE

Fee Amount: The participation fee is \$600 for each participant of the ISS Project Team. This fee will help GSH underwrite the costs associated with this incredible project. Financial assistance is available based on need. *Financial aid requests should be directed to Jennifer Frisbee at (808) 675-5520 or jefrisbee@girlscouts-hawaii.org*

Notification/Deposit: Participants will be notified by **August 27, 2013**, via email regarding their status as a team member. Upon notification of acceptance, **a nonrefundable deposit of \$100** must be made to reserve the participant's spot. This deposit will be applied towards the total fee. Complete payment is due by **August 29, 2013**.

Payment: Checks should be made out to:

Girl Scouts of Hawai'i
410 Atkinson Drive, Suite 2E1
Box 3

Honolulu, HI 96814 / ATTN: ISS TEAM

Note: Please write "ISS fee for (YOUR CHILD'S NAME)" in the MEMO LINE



GIRL APPLICATION: Part I

International Space Station
2013-2014 Project Team



Application Form (Participants are to type or underline, as instructed below):

a. Participant Information

Name:
Email:
Grade (in 2013-14 school year):
School attending for 2013-14 school year:
Approximate current GPA:
Home Phone:
Cell Phone:
Mailing address:

b. Parent/Guardian Information:

Father:
Name:
Email:
Cell:
Mother:
Name
Email
Cell:

- c. Underline this statement if you agree: ***I have read, understand and agree to the commitments outlined in this document.***
- d. Underline this statement if you have shown this document to your parent/guardian and they approve of your application to be considered to be part of the ISS Project Team:

i. My parent(s) has (have) read, understood and agreed to the commitments outlined in this document.

ii. I will send my application via email to jefrisbee@girlscouts-hawaii.org by 5 p.m. on August 23, 2013; and I will also cc: a copy to my parent(s) as well.

iii. My parent(s) understand the nonrefundable payment of \$100 to reserve my spot is due immediately upon notification of acceptance, and remaining participation fee of \$600 is due August 29, 2013—if I am accepted.

e. Please underline all items below that apply to experience you currently have:

- BASIC software programming (p-Basic)
- C++ software programming
- CAD design (specify): _____
- Printed circuit board design (specify): _____
- Knowledge of basic electronics (Ohms law, etc)
- Mechanical Design or Mechanical Layout Sketches
- Robotics Projects
- Science fair competitions. Please specify details:
- Technical or non-technical writing
- MicroSoft™ Project –scheduling
- Journalism (printed, Internet, radio, TV)
- Leadership –please specify: _____

f. Please underline all applicable courses you have taken:

- Journalism
- Physical Science
- Chemistry, Honors Chemistry, AP Chemistry
- Biology, Honors Biology, AP Biology
- Physics, Honors Physics, AP Physics
- Digital Photography
- PhotoShop™
- Non-linear video editing

g. Please indicate areas would like to learn more about if you are selected to be part of this project team:

- BASIC software programming
- C++ software programming
- CAD design (specify): _____
- Printed circuit board design programs (specify): _____
- Knowledge of basic electronics (Ohms law, etc)
- Mechanical Design or Mechanical Layout Sketches
- Being part of the experiment (payload) team
- Technical or non-technical writing
- MicroSoft™ Project –scheduling
- Journalism (printed, Internet, radio, TV)
- Leadership and program management

- h. What other co-curricular activities do you plan to do for the 2013-2014 School Year (please list all of them)? Note that you will need to commit to this program's weekly meetings schedule and applicable deliverables.
- i. Please list any leadership classes you have taken and/or leadership positions you have held. Please describe, in detail.