

The University of Georgia

Small Satellite Research Laboratory

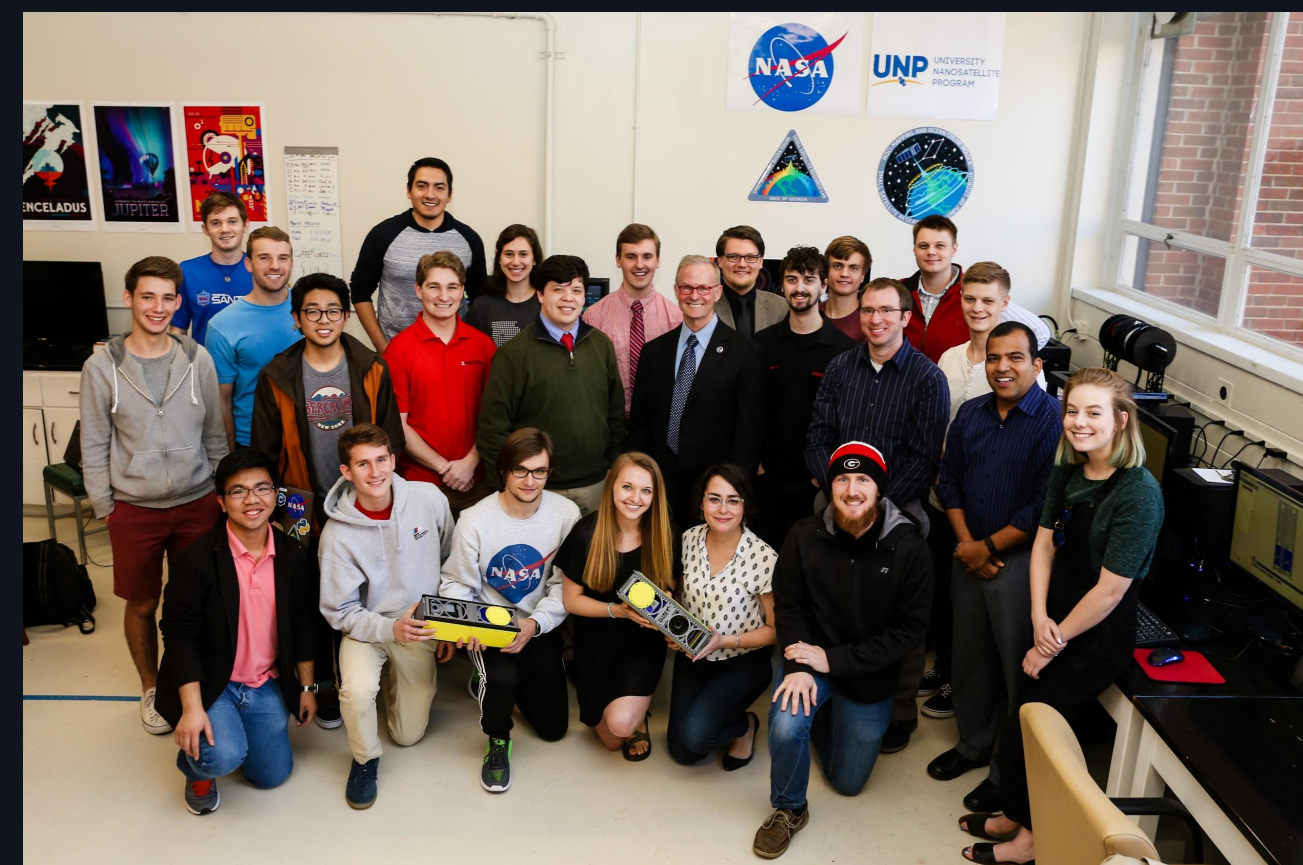
~/ **UGA** SSRL /

Mission Statement

Our mission is to place UGA among the top spacefaring universities in the world and to give UGA a permanent presence in outer space. We aim to teach undergraduate students how to design, build, and operate spacecraft while providing our faculty with unique space-based data. In addition, we are using our facilities and knowledge gained to involve local K-12 students and expose them to space based research through our outreach events.

Founding

The UGA SSRL was founded in 2016 by 3 students at the University of Georgia. The students originally intended to build a modest and small spacecraft funded by a Kickstarter. However, shortly after the students reached out to faculty, the project began to increase in complexity. Now the SSRL team includes over 50 undergraduate members - and is still growing. The lab is now partnered with both NASA and the Air Force, and is building two 3U cubesats for Low Earth Orbit.



Some of the SSRL team, Spring 2017

Facilities

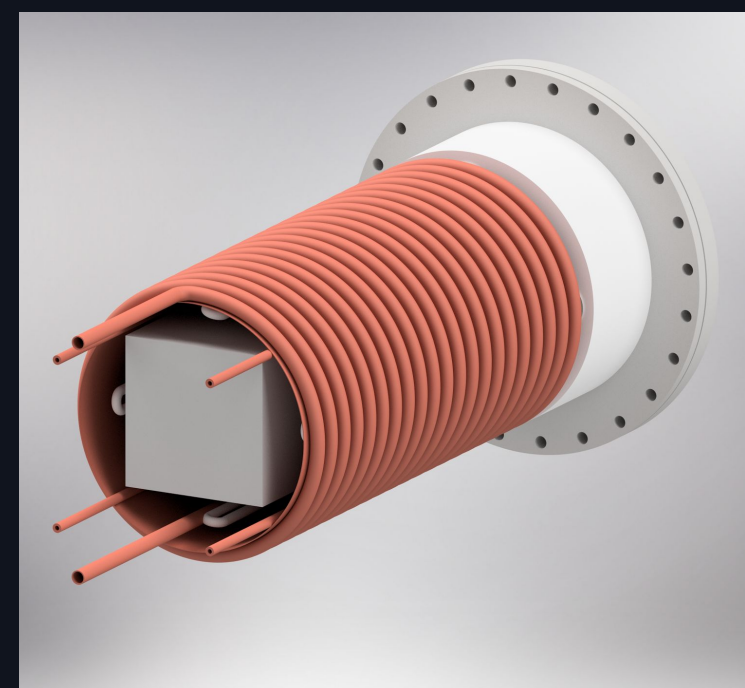
UGA SSRL has developed, or is developing, the necessary facilities and equipment to accomplish its mission, including:

Specialized:

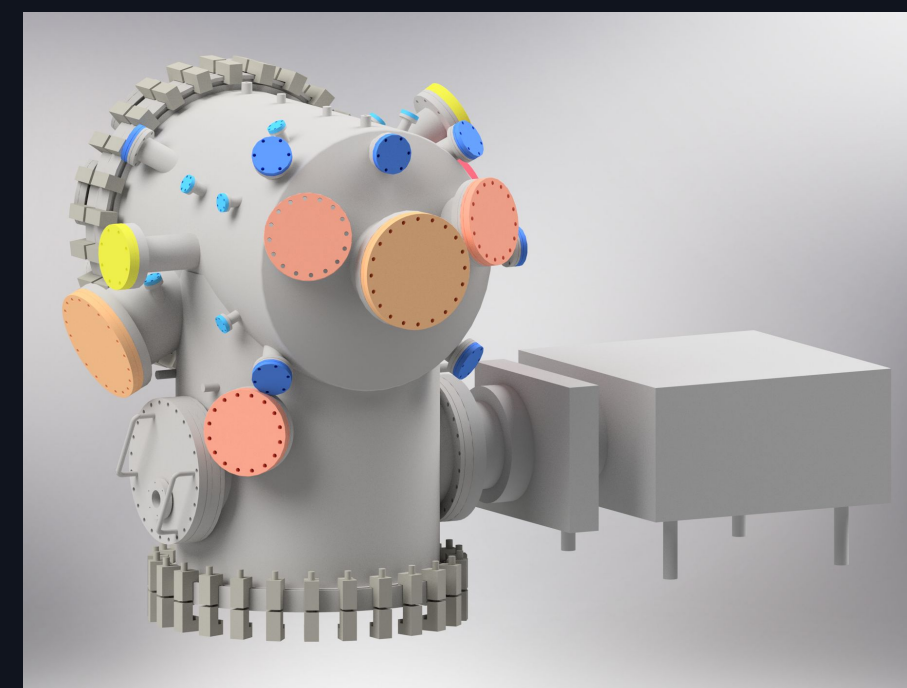
- Vacuum Chamber operating at 10^{-6} torr
- Clean Room operating at ISO 6 & 7
- S-Band ground station (In Progress)
- UHF/VHF ground station (In Progress)
- Access to a High Performance Computation Cluster

General:

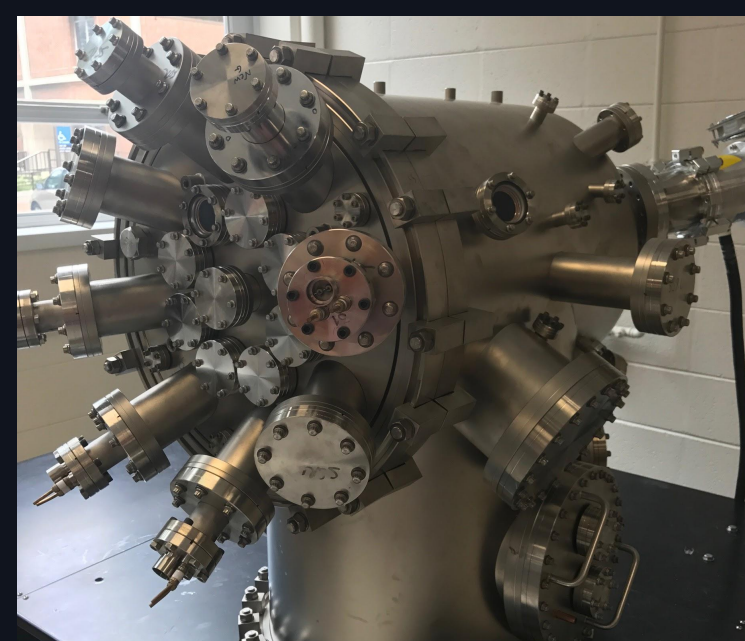
- Two 3D printers
- Laser Cutter
- Copious high performance computers for CAD and simulations
- Various Electronic and Mechanical support equipment



Thermal shroud built for Tvac testing.



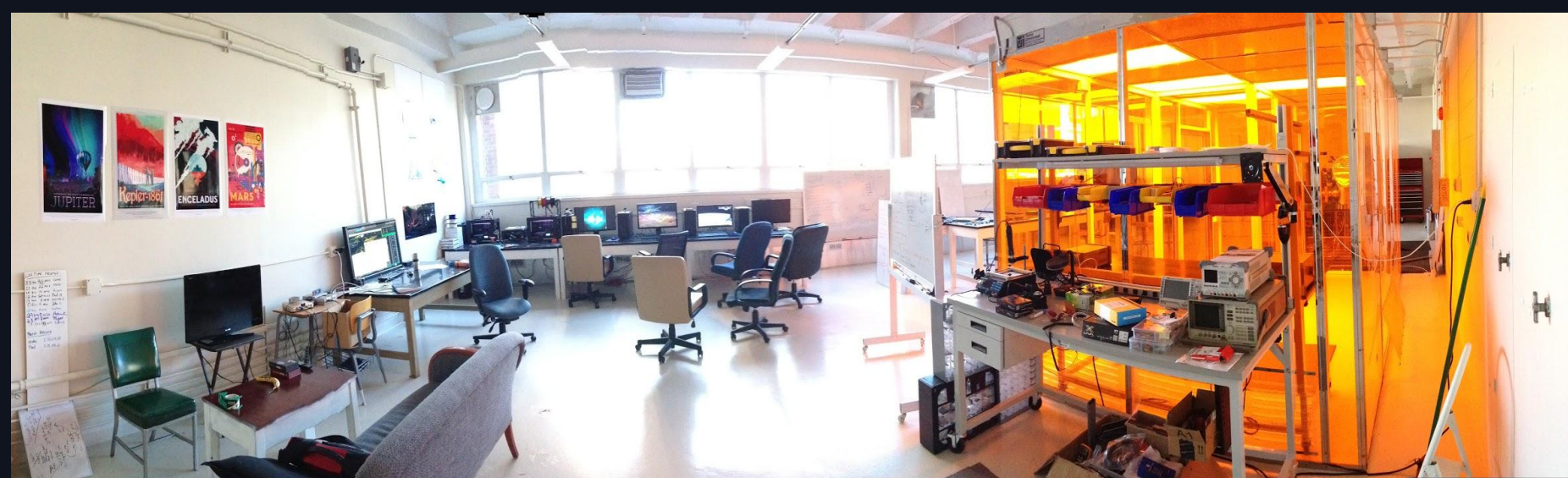
CAD of the vacuum chamber.



Vacuum chamber ready for testing.



Equipment being installed in the clean room.



Small Satellite
Research Laboratory
Franklin College of Arts and Sciences
UNIVERSITY OF GEORGIA

<http://SmallSat.uga.edu>



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