

PROJECT POLARIS



ADVANCED PROGRAM

Hello! Thanks for considering applying to Project Polaris. Below are the teams we currently have positions for as of January 8th, 2022.

Application link will be made available at <http://www.arexcr.com/projects/polaris/>

General Positions are responsible for actively communicating with their team, attending project events, and fulfilling their deadlines on time.

Head Positions are responsible for an entire sub-team. Heads are expected to create objectives and subsequent schedules that fulfill said objectives. Heads are expected to schedule weekly meetings, assign tasks, and be an available resource to members as they fulfill their tasks. Heads must actively communicate with their team, other teams, and Admins. The progress of subteam is the responsibility of the Head of that subteam.

Directors Positions are in charge of leading the team to success. It is their responsibility to schedule weekly/biweekly meetings for the entire team and to ensure they are productive. They work as a connection between sub teams and close to the Heads

Admin Positions are responsible for leading the entire program from an entrepreneurial/management side. They play a role similar to a board of directors. They meet with sponsors, mentors, partners, and directors to ensure the program keeps growing. This is the perfect opportunity to practice entrepreneurial skills.

Administrative Team // **Admin** Position(s) available

Systems Engineering Team: Logistics and Risk Management // **General** Position(s) available

- Evaluate prototype designs and testing procedures to ensure they are feasible and optimized.
- Ensure members are appropriately trained on lab equipment and procedures.
- Evaluate assumptions/risks taken by technical teams and the Hosting and Travel team to ensure they are reasonable.
- Develop plans to test assumptions and evaluate risks when needed.

Electronics Team: Instrumentation // **Head** Position Available

- Develop scientific instrumentation and assemblies that allow the rover concept to measure at a sufficient fidelity while under appropriate constraints.
- Develop appropriate testing plans and equipment that within program financial constraints.

Propulsion Team: Thrusters // **General** Position(s) Available

- Design cold gas thruster nozzles that fulfill the rover's mobility requirements under Titan's environmental conditions.
- Translate theoretical nozzle designs to prototype designs that are within program financial constraints.
- Design and manufacture relevant test plans and equipment including test benches for thrust and attitude control.

Financial Team // **General** Position(s) Available

- Keep track of team spending and available budgets.
- Ensure materials required can be procured for a reasonable cost as well as in a timely manner.
- Overlook the distribution of crowdfunding campaign donor rewards.

Hosting and Travel Team: **Director** Position Available*

Hosting and Travel Team: Hosting // **General** Position(s) Available

- Create a network of exchange families willing to accept international members during the Action Stage.
- Develop community events for international members during the Action Stage.
- Overlook the wellbeing of international members while in Costa Rica.

Hosting and Travel Team: Travel // **General** Position(s) Available

- Oversee all required procedures Project Polaris members must take to travel to Costa Rica (Passport, Proof of Vaccination, Insurance etc.)
- Aid members with any questions they may have about traveling and Costa Rica.
- Track all international flights and ensure members are accounted for until they reach their appropriate hosting family.

C3: **Director** Position Available*

C3: Community // **General** Position(s) Available:

- Create and overlook internal events for Project Polaris members to promote team bonding, cultural interaction, and having fun!

C3: Communication // **General** Position(s) Available

- Create periodic internal newsletters that encompass the progress of each individual team.
- Create external blog posts that encompass the progress of each individual team and the entire program.
- Communicate internal and external events to members through email and Whatsapp.

C3: Content // **General** Position(s) Available:

- Contribute to the styling and format of Project Polaris's social media campaign
- Create clear, professional, and alluring social media posts that promote our program and our message.