

Subsystem Description:

The EPS team(Electrical Power Subsystem), part of the ROSPIN-SAT-1 project, is looking for new colleagues to get involved in the development of a Cubesat. We offer an educational opportunity to develop solutions for a more efficient and reliable energy distribution system on a small satellite.

One of the main problems in such a mission is the correct management of the energy generated through solar panels. Every movement or given task involves an energy demand so it is essential that the satellite produces and stores enough energy at every point in time to perform them

The main objectives of the EPS subsystem are:

- Choosing the most efficient components, both from a financial point of view as well as the technical advantages they have in comparison with other options.
- Designing the optimal configurations for the interconnection of several other subsystems in order to fit every operating scenario of the mission.
- Integrating passionate people into the world of space technology and making sure they get familiar with this domain.

Essential :

- Student/Graduate in Electrical Engineering, Electronics, Power Engineering or any other technical (STEM) related field
- A good team player, but equally comfortable working independently
- Able and willing to expand their knowledge through reading relevant materials and manuals
- Self-motivated and proactive
- A can-do attitude
- Availability to attend weekly meeting and work independently (minimum 2 hours per week)
- Good knowledge of Microsoft Office Pack/Google Workspace

Nice to have :

- Familiar with the inner workings of the electrical power generation and delivery systems for different applications
- Experience working with space related software (STK, Matlab/Simulink)
- English - Intermediate level
- Can produce good quality documentation

A long but interesting road awaits us and we want you to join us.