

**Job Opportunity
with
GALAMAD AEROSPACE PTE. LTD.
(Singapore UEN: 202300694E)**



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Intern for Project Soteria

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(Spacecraft Component Qualification Engineer)

What will I be doing?

The overarching objective of this project is to implement coatings on our spacecraft and solar panels to protect them from radiation and thermal damage in low earth orbit. It may sound daunting but we have broken it down into simpler tasks so you can contribute and experience this as well!

The main tasks are:

1. Build a database (collection of datasheets and tables) of commercial solar cells, coatings for space radiation protection, and radiative cooling that are available off the shelf.
2. Select the optimal products for our application from that database with a well-documented elimination process that explains why we choose one over the others.
3. Characterize and certify coated items by using vacuum radiation testing equipment

With this final step, we can certify whether the coatings are sufficient for our use in space. Once certified, it will go aboard our first launch and you get to say you put something in space!

What is required of me?

- Excellent ability to use search engines, chatbots, and other tools to find research articles as well as commercial entities offering corresponding products commercially.
- Knowledge of Overleaf (Latex), Mendeley, and/or any other open-source software for writing reports and consolidating references.
- Knowledge of Python scripts to optimize searching the web and AI assistants.
- Passion for deep tech, space, and particle physics to be able to comfortably navigate these fields toward the ultimate goal of doing a full certification radiation test and sending something to space!
- You shall have a wild, wild imagination. We certainly can't wait to be surprised by what you craft and the stories we tell together!

What is in it for you:

- Multi-disciplinary experience: This work introduces you to a world of possibilities in a variety of industries including solar energy, coatings, radiation protection, and more in addition to the space industry itself.
- Multi-disciplinary skills: Apart from honing your skill of finding the right information, you also learn the use of cutting-edge AI and other tools to increase your efficiency and productivity well beyond that of your peers.
- Working in the space industry and sending something to space!
- A team that tries to be as humane as possible. We may not be your blood family but it is our honest hope that your time with us will be nurturing, fun, and the best part of your day.
- Awesome monetary compensation
- Space. Nowhere is cooler