## TAKE THE STEP OUT INTO SPACE, WITH US!

— SPACE ENVIRONMENTAL TESTING —





## Internship / M.Sc. project

Characterisation of the solar simulator of the large IRF SpaceLab Thermal Balance / Thermal Vacuum facility.

The solar simulator is the largest vacuum chamber at IRF SpaceLab, suitable for complete systems/payloads:

Dimensions: d = 1.23m, l = 1.3m
Mounting table: Cu, 0.7 x 1.2 m
Temp. range: -45°C to +90°Con the table (-160°C for the shrouds)
Pressure down to 10-6mbar (10-5after 1h)
0.4 x 0.4 m illuminated area: 0-1350 W/m2

Depending on the level of the trainee the work will include:

- Studying of the system's documentation
- Test runs
- Development of a system to characterise the solar beam size and integral intensity
- Characterization of the thermal environment
- Verification of the measured parameters against specifications
- Writing a report

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