CERN main mission: particle physics
Detectors - ATLAS
Detectors - CMS
Detectors - ALICE
From the smallest to the biggest particle accelerators...
Very high vacuum
Extreme temperatures
Radiations

Radiation
Zone Supervised Area
Dosimeter obligatory
Dosimètre obligatoire

Radiation Protection Radioprotection 72504
Big data
CERN Supported Scientific Experiments in Space - Exemples

Astroparticle Physics – Astrophysics - Cosmology
CERN IOD exemple: CELESTA CubeSat
Exemples of CERN Technologies for Space

- Medipix/Timepix detectors in-flight demonstration on Proba-V, Orion and the ISS
- Superconducting shields
- Rad-hard electronic devices
- Data handling software

Micro-engineering and advanced material solutions for thermal management
CERN Technology Areas...

... and key Application Fields
For more informations:

https://careers.cern/students

https://kt.cern/aerospace