



JOIN

OKAPI

AS DEBRIS MITIGATION ENGINEER (full time)
In Braunschweig (starting 04/2022 onwards)

Your mission

Develop the first ever collision avoidance and frequency coordination framework with international space debris scientists. Your specific mission will be to develop software products and services that enable satellite manufacturers, satellite operators, space agencies and governments to ensure sustainability of the satellite mission already in the design. Your products will be used by both commercial satellite operators running constellations with hundreds of satellites, as well as national and international space agencies.

Your responsibilities and tasks

- Develop algorithms to validate the sustainability of space missions. This ranges from optimizers for end-of-life maneuvers to deriving concepts to reduce the light pollution by large constellations
- Analyze the sustainability of large satellite constellations
- Contribute to software development projects for national and international space agencies in the field of debris mitigation

What you need to succeed

- You have a degree (M.Sc. or higher) in Aerospace Engineering or a related subject,
- You have a strong mathematical background and are not afraid of differential equations
- Good programming skills, especially in Python,
- Very good knowledge of written and spoken English,
- Experience in orbit determination, Kalman Filters and orbit/co-variance propagation are a plus
- Knowledge in other programming languages, including Fortran, are a plus
- Knowledge in Space Debris Mitigation Standards and Requirements is a plus

Benefits

- With a flat hierarchy and small working groups, you define your own way of work including flexible work hours and remote options
- Participate in space conferences as representative to spread the word of a sustainable space environment!
- Enjoy a range of free drinks in the office
- Access to a dedicated training budget to continuously develop your skills further
- Of course, we also do regular afterwork activities like laser tag, common dinners

Application process

To apply, please send a short cover letter, your CV, and any references you consider relevant to career@okapiorbits.space. We will be in contact short after to discuss the next steps.