

Arcsec is a spinoff company of the KU Leuven university and develops attitude determination and control systems for small satellites.

Arcsec delivers its components to companies and universities around the world and is involved in several research projects with the European Space Agency.

The company is based in the center of Leuven.



Role

As data engineer and algorithm developer you will be working with algorithms of our star trackers. This includes optimization of the algorithms to improve the accuracy of the results, robustness and speed and transfer them to different processing architectures. You will also work with the collection and processing of data in the DeDUST project. The goal of DeDUST is to track space debris using star trackers.

Tasks

- Design, test and improve star tracker algorithms
- Design, test and improve algorithms to detect and classify space debris and determine the orbit
- Setup database to collect space debris data
- Visualizations and presentation of the results
- Support customers in parameter tuning on their products

Required skills

- Bachelor or Master degree in Engineering or (Computer) Sciences
 - Hands-on programming skills (Git/Documentation/testing methods) and able to write clear documented code.
 - Experience with Python and C code
 - Knowledge of efficient sorting, searching and filtering methods
 - Experience with storing, retrieving and processing data in scientific databases (SQL, Pandas, HDF5, Parquet)
 - Statistical modelling and error calculations
 - Good reporting skills
 - Experience with spatial computations (3D Vectors, Quaternions).
 - Fluent in written and spoken English
- (junior or senior profiles can apply for the position)

Desired Skills

- Experience with embedded programming and electronics
- Interest in astronomy and or space

What we offer

- ✦ A fulltime job in the Space industry, working with international customers and ESA
- ✦ Opportunities to grow
- ✦ Competitive paycheck

If you are interested

Please send your CV and motivation letter to hr@arcsecspace.com