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# INTERNSHIP IN THE FLIGHT OPERATIONS DIVISION

The Sentinel-3 flight control team currently uses an in-house toolset to monitor, analyse and report on the health of the operations of Sentinel-3 satellites. These tools share common elements between different teams and contains multiple source of inputs.

The intern will work under the supervision of the Spacecraft Operations Manager and alongside the flight control team to enhance and extend the software tools used daily to visualise, analyse and report on spacecraft health. They will also enhance the pre- and post-processing of data and suggest novel ways of mining the spacecraft housekeeping datasets.

The intern will gain experience in satellite operations in particular to the data analysis and reporting aspects of a multi satellite mission, since the toolset is used daily in an operational environment.

Furthermore, the intern will be able to acquire significant knowledge about Earth operations satellite design and operations concept and processes.

Finally, the intern will be exposed to big data issues, and more specifically to data mining methodology which represents one of the biggest coming challenges for satellite operations.

## DUTIES

Implementation of “widgets” to post-process and visualise spacecraft data;  
Implementation of algorithms to pre-process spacecraft data and identify key signatures;

Implementation of automated report generation.



### LOCATION

Darmstadt, Germany



### QUALIFICATIONS

Completed minimum 2 years of university degree in computer science, spacecraft engineering, or similar discipline



### LANGUAGES

Candidates must be able to work effectively in English and have some knowledge of French.



### DEADLINE

15 March 2020

## SKILLS AND EXPERIENCE

Proficiency in Python;  
Software development and architecture knowledge;  
Familiarity with Relational Databases and SQL;  
Great communication;  
Ability to work in a team;  
Ability to work independently under guidance.

## EMPLOYMENT CONDITIONS

Length of internship: up to 6 months  
Anticipated start date: Q2 2020

Interns who have recently finished their studies will receive German minimum wage.  
No salary is paid to interns who are still in studies, however a daily allowance and contribution to travel / accommodation costs may be provided. The conditions will be established taking into account the requirements and policy of the intern's educational institution.  
Interns are responsible for providing their own health and accident insurance and for finding their own accommodation in Darmstadt.

**EUMETSAT is committed to providing an equal opportunities work environment for men and women. Please note that only nationals of EUMETSAT Member States may apply. The EUMETSAT Convention requires that Staff shall be recruited on the basis of their qualifications, account being taken of the international character of EUMETSAT.**

## ABOUT EUMETSAT

EUMETSAT is Europe's meteorological satellite agency. Its role is to establish and operate meteorological satellites to monitor the weather and climate from space - 24 hours a day, 365 days a year. This information is supplied to the National Meteorological Services of the organisation's Member and Cooperating States in Europe, as well as other users worldwide.

EUMETSAT also operates several Copernicus missions on behalf of the European Union and provide data services to the Copernicus marine and atmospheric services and their users.

As an intergovernmental European Organisation, EUMETSAT has 30 Member States (Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, The Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.)

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