

Project 18/35: AI for Space Robotics

Company: GMV Innovating Solutions

Supervisor: Aron Kisdi

Location: Harwell

Company Description: GMV is a privately owned technological business group with an international presence. Founded in 1984, GMV offers its solutions, services and products in very diverse sectors: Aeronautics, Banking and Finances, Space, Defense, Health, Cybersecurity, Intelligent Transportation Systems, Automotive, Telecommunications, and Information Technology for Public Administration and large corporations.

In the global world we live in, the individual and complex needs of our clients are usually met with technological products, solutions and services that are constantly evolving and that were not originally designed with the clients' specific needs in mind, but rather to cater to the common denominator in a global market.

The leadership position that GMV has attained in these sectors is based on an in-depth knowledge of client needs, which allows us to deliver solutions specifically tailored to their individual requirements. GMV offers clients the best solution, fully adapted to their own requirements and including all the support necessary to achieve optimum results at a suitable price. At GMV, our employees, operating model and cultural values focus on meeting the very needs of each individual client.

Project Description:

GMV is currently involved in a number of European Space Agency and European Commission (H2020) projects related to planetary exploration robots. Rovers of the future will need more autonomy and will need to be able to operate extended duration and range without any human input.

The precise project will not be known until start but it will related to robotics and artificial intelligence most likely in the context of space exploration using cutting edge technologies. The intern will join a small team and work on a range of activity that will be selected based on experience and discussion at the beginning of the internship. It may be related to ERGO (www.h2020-ergo.eu/) simulations of Entry Descent and Landing (on Mars, Moon and Asteroids), Sample Fetch Rover or working on robot platforms or instrumentation related to terrestrial or future activities such as object classification using cutting edge VPU hardware.

Applicant Specification: We are looking for an enthusiastic and driven applicant interested in robotics and space exploration.

Start date is 1st of August, duration is 2 months.



Minimum Requirements: The applicant should have an interest and experience in software development.

Experience with ROS and C++ language is preferred. Experience vision processing is preferred.

Preferred Additional Requirements: Experience with interface definitions and usage of industry standard interfaces such as CAN bus or RS232 are desired. Knowledge of HLA optional.

Experience with space robotics is desired.

Further details:

Salary is £1,300 - £1,500 per calendar month.

Closing Date for Applications: 12 noon, Tuesday 5 June 2018

Applications should be made through the online form attaching a CV, before the closing date. Please note that elements of the form left incomplete will be deemed to render the application ineligible. They will be checked for eligibility and forwarded to the employer.

Apply here: <https://sa.catapult.org.uk/people/space-placements-industry-spin/>