

**Project 18/39:** Drought and Flood Mitigation Service

**Company:** RHEA Tech

**Supervisor:** Arnaud Le Carvennec

**Location:** Harwell

**Company Description:**

RHEA Tech offers aerospace and security engineering services and solutions, system development, and technologies. The company's background and roots are within space, and it has grown and expanded to other fields, including aerospace, concurrent design, system engineering, physical security and cybersecurity. RHEA Tech employs more than 100 engineers and scientist in the UK. Top clients include the European Space Agency, Canadian Government, EUMETSAT, the European Commission, EBU, CERN, NATO.

**Project Description:**

Rhea's Harwell team is leading a consortium of UK companies in a UKSA funded project to develop DFMS, the Drought and Flood Mitigation Service. DFMS will provide Ugandan farmers with more accurate and timely weather and hydrological forecasts, earth observation derived indices allowing them to better manage their water resources and take better informed decisions about sowing and harvesting crops.

**Applicant Specification:**

The applicant should have interest in earth observation related subject to define, develop and validate index creation to support DFMS objectives.

**Minimum Requirements:**

BSc in earth observation related subject or mathematics

**Preferred Additional Requirements:**

MSc in earth observation related subject or mathematics.

Coding experience in python.

Understanding of machine learning algorithm as random forest, CNN...

**Further details:**

8 weeks minimum fixed term contract to be agreed with successful candidate but nominally with a start date around 18 June 2018, when the SPIN Induction Day will be held at the Satellite Applications Catapult, Harwell. Salary is £1,500 per calendar month.

**Closing Date for Applications: Tuesday 6 June, 5pm**

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/>