

Geolocation Specific Historical Archive Clean-Up System

Project Code: 19/19

Project Description:

The SeDAS (Sentinel Data Access Service) system captures and disseminates Sentinel data to make it accessible to the wider geospatial community. It is a collaborative project including multiple partners working together with a single aim. As part of this we deal with a firehose of data from Sentinel-1 and -2 that is transferred across multiple companies. Older data is redownloaded as requested, and so can be safely deleted. However, we are constantly in danger of running out of space and must manually monitor and delete the oldest data as required.

At any given point, the Catapult will be working on projects in specific locations and we'll want to keep as much of the data for those locations as possible to save on the overhead of redownloading them. For this we would like a system that monitors the historical archive and automatically cleans it, ignoring those specific areas. This will require handling large amounts of data, sorting and filtering based on age, and overlap with disjoint geolocations.

Applicant Specification:

A successful applicant will be studying for a Computer science, software engineering, or similar degree subject and have some knowledge of python. Earth observation experience is not necessary. Good people skills and the ability to work comfortable in an open environment is required.

Minimum Requirements:

Some knowledge of python. A desire to learn new languages and environments as required.

Preferred Additional Requirements:

It would be great if the applicant has experience with big data systems.

Further Details:

The successful applicant will gain:

- Working as part of an agile team with source control and continuous integration environments
- Develop knowledge of Python 3.



- Develop knowledge of Geospatial tools and skills.
- Develop knowledge of working on production systems maintained by multiple organisations.

Start Date:

The Induction Day will be held at Harwell on Monday 17 June, it is intended this will also be the start date.

The Nitty Gritty:

Interviews will start the week commencing the 8 April. 8 weeks fixed term contract to be agreed with successful candidate but nominally with a start date around Monday 17 June which is also the SPIN Induction day at Harwell. With a salary of £1,500 per calendar month.

Closing date: 5pm Friday 22 March