JOB DESCRIPTION

Post: Earth Observation / Satellite Remote Sensing Programmer
Job reference: ARG_170740
Location: Plymouth, Devon
Start Date: ASAP
Duration: Permanent contract, with 6 months probationary period
Remuneration: £21,000 - £25,000 per annum, depending on experience.
Closing date: 12:00 (midday) Monday 17th July

Summary of the role:

ARGANS Ltd. supports the development of the European Space Agency DIMITRI software (Database for Imaging Multi-spectral Instruments and Tools for Radiometric Inter-comparison), a tool for optical remote sensor calibration & validation (www.argans.co.uk/dimitri). The successful candidate will contribute to this development and eventually other analytic tools, which will involve implementation of the software, data ingestion and analysis from ESA/NASA missions including Copernicus Sentinel-2 and Sentinel-3.

The ideal candidate will be an enthusiastic and self-motivated person with an academic background in a scientific field involving satellite remote sensing and/or earth observation as well as proven experience in scientific programming and data analysis. As a member of a small and well integrated multi-disciplinary team of engineers and scientists the person selected for the position will have the opportunity to participate on international projects, in collaboration with teams at the forefront of satellite-based Earth Observation, providing excellent opportunities for professional development.

All employees are entitled to 25 days annual leave (plus 8 bank holidays) each year, are included in the company bonus scheme (payable on satisfactory performance of both the company and individual over the course of a financial year) as well as access to the corporate health and income protection plans.

Duties will include:

- To provide ongoing support to the DIMITRI project
- Providing scientific and technical support to Senior Scientists and Engineers
- Implementation of algorithms, software testing and verification
- Maintenance and operation of processing software and tools developed by ARGANS
- To develop Calibration and Validation software
- Analysis of EO sensor products
- Writing technical and scientific documentation

Interview date: We are planning on holding an interview day during week commencing 31st July or 7th August.
Application procedure: Once we have received your application, you will be sent a test to complete and return to us as soon as possible. Shortlisting for the first stage of interviews (held via skype) will be done on the basis of your application form and the answers from your test. After the initial interviews, if we feel you are suitable for this role, we will invite you to attend our interview day.
Entitlement to Work in the UK: If you are shortlisted for interview you will be asked to bring to the interview original documentary evidence of permission to work in the UK.

CANDIDATE SPECIFICATION

	Essential	Desirable
Qualification & Training:	• University degree in relevant scientific field (e.g. Physics, Software/ Computational Sciences, Oceanography, Marine Science, etc).	• Postgraduate qualification in a related field (e.g. Remote Sensing) OR equivalent industry experience
Experience/ knowledge:	• Experience in software programming and scripting. • Proficient in at least one of the following programming languages: IDL, Python or C. • Experience in data analysis, satellite image analysis and/or scientific/engineering modelling. • Experience of the Linux operating system. • Willingness to learn and programme in IDL, if not already experienced in this language.	• Knowledge and experience in Python and/or IDL; • Knowledge in radiative transfer modelling; • Experience in version control platforms (e.g. GitHub); • Evidence of good technical & scientific writing skills e.g. peer-reviewed publication; • Understanding and experience of Satellite Remote Sensing and its use. • Knowledge of the Copernicus EO programme.
Qualities and Attitude:	• Must possess excellent organisational skills and be able to respond positively and proactively to changes to your work schedule and evolving deadlines; • Have excellent interpersonal skills allowing you to communicate effectively and develop productive collaborative working relationships within a diverse team that is often spread across numerous locations. • Attention to detail and openness to critical feedback. • Willingness to travel within Europe, if required	• A proven ability to provide innovative solutions to scientific problems and overcome obstacles. • Have demonstrated organisational ability and interpersonal skills by having held a position within the software development industry or international scientific community.

Application Procedure: All applications must be submitted using the ARGANS application form, which can be downloaded from our website (www.argans.co.uk) and emailed to Lorraine Sanders at admin@argans.co.uk. For further information please contact Lorraine Sanders on 01752 764298.