Data scientist - Image processing Engineer (F/M)
12 months CDD, renewable

SERTIT, a platform of the ICube laboratory, within the University of Strasbourg, aims to extract and to format information from image data produced by Earth Observation systems. SERTIT is an intermediary between space research, digital technologies and operational user needs.

SERTIT uses space-borne Earth Observation data transforming them into geo-information, easy-to-use in decision support systems. Within the perspective: Space serving the Earth, the foundation of our service offer, we take care in continuously accounting for user wishes and needs, the growing potential offered by space technologies and the latest developments in terms of remote sensing research.

To join our team in Strasbourg, France, we are looking for an engineer specialized in image processing.

The role:

- Development and optimization of scientific algorithms for the exploitation of satellite imagery
- Take a leading role in the implementation of machine / deep learning algorithms and methods.
- Closely collaborate with a team of geoscience and remote sensing engineers to define functional and technical aspects of the algorithm development
- Being an active member of SERTIT's Rapid Mapping Service of SERTIT, involved in the map production within the framework of several international satellite-based emergency response mechanisms (training provided). This is a 24/7 service and involves on-call duty and sometimes working nights and weekends

The Must Haves:

- Diploma: Engineering degree in computer science or related field with specialization in big data / statistical modeling
- Expert Scientific Python programming
- Experience in deep learning frameworks (Tensorflow / Keras, Pytorch, CNTK, Caffe, ….)
- Experience in building machine learning pipelines
- Experience in image processing and/or computer vision
- Experience in container technology e.g. Docker, Singularity, Podman, …
- Experience in Linux / Windows operating systems
- Experience in machine learning / deep learning modelling
- Can do attitude, innovative, analytical, rigorous, …
- Good level of technical English
- Ability to perform on-duty assignments

The Nice to Haves:

- Experience in programming languages like Java and bash scripting
- Experience in database solutions: PostgreSQL, SQLite
- Experience in cloud data processing tools like Hadoop/Spark/S3
- Experience in distributed computing solutions: Slurm, Dask, Apache Airflow, Fireworks, …
- Experience with automated analysis of satellite, aerial, or multispectral imagery is a plus

A prior professional experience is not required, but a first experience including software development is a plus.

We offer a unique environment for dynamic people looking to develop their own skills in an international team. Flexible working hours and a very good vacation package on offer.

Furthermore, and depending on your professional experience please send your Internship Report and/or personal reference(s) in the case of professional experience. If you have a portfolio or a GitHub link include it in your application, we'd love to see you work!

Work conditions :

- 6-12 months CDD, renewable
- 37h30/week (full time)
- Days off : 51.5 days

Our foreseen calendar is as follows:

- Closing date: 25/09/2022,
- Interviews: 01/10/2022 to 15/10/2022
- Job to Start: 01/11/2022 or on a mutually agreed date

We look forward to receiving your candidature to jfkong@unistra.fr with the subject title: IP – Name - Candidature
and please deposit documentation (CV, Cover letter, references and/or Internship Report, Git) at the following address:

https://seafile.unistra.fr/u/d/0248b6afa96444e0a40c/

Using the following filenames:

- IP-Name-CV,
- IP-Name-CoverLetter,
- IP-Name-Internshipreport,
- IP-Name-References
- IP-Name-GIT…

ICube-SERTIT
Parc d'Innovation
300 Bd Sébastien Brant - CS 10413
F - 67412 Illkirch Graffenstaden

Contact: jfkong@unistra.fr