



Software development engineer (F/M)

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 software development.

Education:

- MSc or equivalent in computer science / software engineering (preferably with 1 year of experience)

The role:

- Development and optimization of scientific algorithms for the exploitation of satellite imagery.
- Participate in the development and maintenance of in-house image processing chains for the automatic extraction of information from Earth Observation images.
- Closely collaborate with a team of geoscience and remote sensing engineers to define functional and technical aspects of the algorithm development.
- Being a member of the Rapid Mapping Service of SERTIT, involved in map production within the framework of several international satellite-based emergency response mechanisms (training provided).

The Must Haves:

- In-depth C/C++ programming skills.
- Solid python programming skills.
- Experience with parallel and/or distributed computing paradigms such as Hadoop, Spark, OpenMP or MPI.
- Experience in image processing and/or computer vision.
- Deep familiarity with at least one relational database technology (e.g., Postgres, MySQL, etc.).
- Linux skills.
- Familiarity with Git.
- Good level of technical English.
- Capacity for team working and exchange with researchers from different application domains.
- Ability to perform on-duty assignments.

The Nice to Haves:

- Basic understanding of remote sensing images and processing.
- Experience solving real-world problems with machine and deep learning models.
- Experience in modern deep learning frameworks such as Tensorflow, Caffe2, Theano, MXNet, CNTK or Keras.
- Experience reading and implementing research papers.
- Experience maintaining and operating web services.

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 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 your work!

Our foreseen calendar is as follows:

- Closing date: 15/09/2017,
- Interviews: 26/09/2017 to 29/09/2017
- Job to Start: 01/10/2017 or on a mutually agreed date.

Please deposit documentation (CV, Cover letter, references and/or Internship Report, Git) at the following address: <https://seafile.unistra.fr/u/d/ff62d1217d/>

Using the following filenames:

- Name-DEV-CV,
- Name-DEV-CoverLetter,
- Name-DEV-Internshipreport,
- Name-DEV-Reference.

And we look forward to receiving your letter and curriculum vitae to:

- Fahd Benatia fbenatia@unistra.fr
- Stephane Gaermer s.gaermer.dit.1@unistra.fr

Best regards,

ICube-SERTIT

Parc d'Innovation

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