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Job vacancy notice

Open engineer position in Software development and GNSS time series analysis

IGN-France

Geodetic department

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The National Institute for Geographic and Forestry Information (IGN) is a governmental organization placed under the supervision of the ministries responsible for ecology and the forest, employing roughly 1.500 persons over the whole french territory.

At IGN, we aim at supplying society and authorities with reference geodetic and geographical data and services over France. Our major productions are freely available through the national geographic data portal. We devote our action to supporting public policies for environment, land use planning, sustainable cities, risk mitigation, agriculture, defense,…

In a growing number of areas, we are developing collaborative productions with local authorities and communities of public, private or citizen actors.

Our engineering school, ENSG-Géomatique, and its multidisciplinary research teams, give IGN a high-level innovation potential in multiple fields (geodesy, forest, photogrammetry, artificial intelligence, spatial analysis, 3D visualization…). IGN is for instance in charge of the determination of the International terrestrial reference frame (ITRF), in close cooperation with the Institut de physique du globe de Paris.

About this offer:

The division of operations and territories of IGN is in charge of producing authoritative data, making appropriate representations of this data, managing, disseminating and archiving it. This data covers geodetic information, remote sensing coverage of the territory and cartographic representations.
Within this division, the geodetic department (SGM) is responsible for designing a geodetic infrastructure consistent with international systems, and managing and disseminating the national geodetic, gravity and vertical reference frames. Besides, SGM is engaged in supporting the development of the European GALILEO navigation system, in particular through its contribution to the GALILEO reference frame within the GALILEO geodetic service provider consortium ([GGSP](#)).

Your missions:

As an engineer under the supervision of your project manager, you will contribute to the GALIEO terrestrial reference frame determination. You will be in charge to contributing to software development in Python language and to manage continuous data processing lines that serve the quality control of the GALILEO system. You will monitor the processing, manage failures, and be proactive in proposing numerical experiments of reprocessing to help any necessary diagnosis.

You will contribute to on demand software development within the frame of theses numerical experiments, and to larger software refactoring tasks undertaken within the general frame of our software maintenance policy.

Required qualifications:
You benefit from solid developer skills and justify from some practice in the Python language or another object oriented language during your education.

Your education in geodesy will be highly appreciated, in particular as far as geodetic reference systems theory is concerned.

Some practice with GNSS time series, as well as knowledge of the FORTRAN language, will also be appreciated.

You are fluent in scientific and technical english or in french.

You are proactive, autonomous, and like teamwork.

Come with us !

Conditions:

- 3 years fix term contract, wages according to your diploma and experience (gross annual 29K – 45k)
- Place : IGN, 73 avenue de Paris, Saint-Mandé, France
- Position taking : from September 2022

Application:

Please send curriculum and motivation letter to recrutement-mobilite@ign.fr, under reference VGL/DOT/SGM/ING-GEO

More information:

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