



Digital technologies are generating new services, they deeply change our lifestyles and improve our daily life. In France, Inria is the only public research institute entirely dedicated to digital sciences. 400 R & D engineers assist the scientists in their daily work, they develop software tools to facilitate the research and set up technology platforms for experimentation.

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Research team

Grid'5000 is a research infrastructure for the study of distributed systems and clouds. It is composed of around 1000 servers hosted in 11 sites, interconnected by a 10Gb/s network that can be isolated from Internet for experiments. Grid'5000 empowers academic research teams, sometimes in collaboration with industrial partners, to configure a network with specific characteristics and to deploy on some or all of the nodes a specific software stack for the duration of an experiment.
<https://www.grid5000.fr>

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Assignment

The objectives of the LAPLACE project are to extend Grid'5000's features to allow its users to perform innovative experiments. Software Defined Networking, Big Data, and HighPerformance Computing are the domains where progress is expected. In the Grid'5000 development team, the engineer will take part in the design of infrastructure or API changes and will be responsible for their development. It will then collaborate with the support staff to put those developments to production. He or she could also be associated to scientific publications around this work.

Keywords Systems and network developer, SDN, Big Data, HPC

Qualification & experiences

Ingénieur Confirmé : To be at least an engineering graduate or having equivalent qualification (PhD Diploma accepted) and to have from 2 to 7 years software development experience.

Skills & qualities

Required: Project management methods, Software development and associated tools in a Linux environment, Network and system programming with Linux. Appreciated: Strong knowledge in a least one domain amongst: Software Defined Networking, Big Data, HPC ; First experience with experiments, preferably using/about distributed systems (Cloud, HPC, P2P, Grids) ; Ruby programming ; Basic French knowledge ; devops

Duration: 24 months

Location: Nancy

Targeted hiring date: 01/10/14

Salary: 2600 to 3200 € gross based on experience

This offer is available from 25/04/14 to 30/06/14

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For your information, security and defense procedure

In the interests of protecting its scientific and technological assets, Inria is a restricted-access establishment. Consequently, it follows special regulations for welcoming any person who wishes to work with the institute. The final acceptance of each candidate thus depends on applying this security and defence procedure.