



VERCE (<http://www.verce.eu>) is a 4 years European FP7 Infrastructure project coordinated by the CNRS (Centre National de la Recherche Scientifique). The VERCE consortium is composed of ten major European research and education partners in seismology, computer science, computer engineering and informatics. The overall goal of VERCE is to provide an e-science environment for the data intensive applications of the earthquake and seismology research community through a comprehensive service-oriented architecture and a distributed platform integrating data, Grid, Cloud and HPC infrastructures.

## **The CNRS-INSU is recruiting a Scientific Software Research Engineer**

### **Position**

- Employment (public law): 3 years, starting as soon as possible
- Location: Institut de Physique du Globe de Paris (CNRS-UMR 7154), 75005 Paris, France

### **Description of the position**

The Scientific Software Research Engineer (SSRE) is responsible, under the supervision of the CNRS-INSU VERCE coordinator, for planning, executing, and finalizing the R&D activities that enable data- and cpu-intensive applications (time series analysis and waveform modeling) on the VERCE data-intensive platform. He or she will liaise with the VERCE team to deliver the project deliverables according to plan. The main activities are:

- Analyze and productize - alongside the seismological research developers – the software implementation of the VERCE data-intensive applications up to re-usable data workflow through refactoring and reengineering evaluation cycles;
- Deploy, evaluate and monitor the data-intensive applications on the VERCE platform;
- Contribute to the validation of the platform components and tools all through the project.

### **Qualification**

Ph.D. degree in Computational Science or equivalent experience. Professional experience of + 3 years will be a strong asset.

### **Knowledge and experience**

- Experience including one or more of: distributed computing, data-intensive methods, high-throughput and multi-threaded computing;
- Strong programming skills and practical experience in analyzing and reengineering scientific codes with demonstrated proficiency in one or more of: C/C++, Java, and Python programming languages;
- Experience including one or more of: data workflow, large scientific databases, parallel file systems;
- English writing skills and strong capability in writing syntheses and reports.

### **Valuable additional knowledge and experience**

- Knowledge in time-series analysis and signal processing;
- Experience including one or more of: Grid, Cloud environments;
- Experience in open source collaborative projects.

### **Salary and work conditions**

- The position is at the level of research engineer on the French CNRS public salary scale. Depending of the diploma degree and the working experience, salary ranges from 30 000 – 40 000 €/year gross salary, including health insurance (*Note: The take-home amount in France, after the standard pension, health care, and tax withholding amounts have been removed, is around 80% of the gross salary*);
- The position includes travel, mainly in Europe, for technical meetings, workshops and conferences.

### **Submission of application and contact**

Application must be written in English, indicating the earliest starting date, and consists of a resume (max. 2 pages), a cover letter (indicating where you saw the position advertisement) and references if applicable.

Please mail to: [pmo@verce.eu](mailto:pmo@verce.eu) before **15 August 2012**.