Job offer

A software engineering position of 18 months is available at the Laboratoire de Recherche en Informatique (LRI), to work in the **Grid Observatory Strategic Cluster** of the EGEE-III project (http://www.eu-egee.org) funded in part by the European Commission through FP7.

Introduction

EGEE is a flagship project of the European Community dealing with grid technology. It has involved more than 800 engineers and researchers in the first two phases (2004-2008) and continues into a third phase, EGEE-III (2008-20010). The LRI is responsible for the Grid Observatory cluster, and works in close collaboration with the leadership of the corresponding Networking Activity in EGEE (NA4-Applications Identification and Support), at the Laboratoire de l'Accélérateur Linéaire (LAL). The LRI and LAL are both located on the Orsay Campus of Université Paris-Sud. The EGEE group in Orsay currently involves 8 researchers and engineers. The Grid Observatory is also supported by the Institut des Grilles du CNRS.
The Grid Observatory will integrate the collection of data on the behavior of the EGEE Grid and EGEE users with the development of models. The Data Collection and Publication task will design, implement and deploy a set of tools for the acquisition, consolidation, long-term conservation, and publication of traces of EGEE activity and applications, based on existing monitoring tools. The visible result of this task will be a public database of grid traces, accessible to researchers worldwide through a web portal.

Functions

The objectives of the engineer will be:
- to review the existing sources of EGEE data and monitoring software;
- to participate in the database design and technology choices;
- to implement selected interfaces between the existing monitoring tools and the Grid Observatory database.

The position is an opportunity to tackle great engineering challenges: the scale is on the order of terabytes of data; the existing monitoring tools are oriented by operational need, thus filtering and restructuring at the interfaces is required; finally the design and implementation must take into account the research goals of the project, which implies some level of flexibility. The position is an opportunity to acquire visibility in one of the most advanced IT engineering communities, and, to some extent, to get acquainted with the research areas of distributed systems and autonomic computing.

Qualifications

Applicants should hold a master's degree in computer science or engineering, or a French diplôme d'ingénieur, with relevant specialization; experienced candidates with a lesser degree can apply.

Skills

- Proven knowledge of relational databases and the SQL language.
- Good knowledge of at least one scripting language such as Perl or Python.
- Some level of familiarity with web technologies.
- Basic knowledge of distributed systems.
- Good communication skills and the ability to liaise effectively with the partners in EGEE.
- Ability to work independently as well as a member of a team, initiative, accuracy and attention to detail.
- Fluent English.

Salary, location and dates

We offer a limited duration contract for a period of 18 months.
The gross salary is 1600 - 2200 Euros/month, depending on qualification and experience.
The position is based in Orsay, close to Paris, and may start anytime between May and October 2008.

Contact

Enquiries or applications (including CV and contact for at least one reference) can be sent via email to Cecile Germain-Renaud (cecile.germain@lri.fr). DO NOT SEND ZIPPED DOCUMENTS.