**Main activities**

In the context of massive data analytics, we must address major challenges to develop efficient solutions for analyzing the data. Actually, technological solutions exist to support developers in this task, e.g. Apache Spark or the MapReduce framework. However, there are still crucial problems to resolve in order to avoid dramatical response times. For example, in the case of pattern extraction, it is vital to design extraction schemes that take into account the context of distribution and characteristics of the infrastructure (typically a straightforward implementation of Apriori in MapReduce for frequent pattern discovery is easy, but will lead to very low performance).

The analytical techniques considered in this postdoctoral position are related to frequent patterns, frequent sequential patterns or informative patterns (based on entropy). According to your background, you will work on one or more of these topics, in a large scale distributed environment.
The Inria’s Zenith team, directed by P. Valduriez, proposes a postdoctoral research position on massive data analytics. In the context of massive data distribution at very large scale, we must address major challenges to develop efficient solutions for analyzing the data. Actually, technological solutions exist to support developers in this task, e.g. Apache Spark or the MapReduce framework. However, there are still crucial problems to resolve in order to avoid dramatical response times. For example, in the case of pattern extraction, it is vital to design extraction schemes that take into account the context of distribution and characteristics of the infrastructure (typically a straightforward implementation of Apriori in MapReduce for frequent pattern discovery is easy, but will lead to very low performance).

The analytical techniques considered in this postdoctoral position are related to frequent patterns, frequent sequential patterns or informative patterns (based on entropy). According to your background, you will work on one or more of these topics, in a large scale distributed environment.

**Skills**

The candidate should have a strong background in large scale data management and be proficient in English. Send us a detailed CV, including a complete bibliography and recommendation letters.

**Benefits package**

- Subsidised catering service
- Partially-reimbursed public transport
- Social security
- Paid leave
- Flexible working hours
- Sports facilities

**Remuneration**

Gross Salary: 2650 brutto per month

Work location: Montpellier