



The Computer Science department of Telecom SudParis seeks an expert in High Performance Computing for a one-year contract.

**Context:**

The objective is, from a common expression of parallelism in the source code, to automatically produce hybrid executable code dedicated to distributed memory architecture platforms made of multi-core processors. At Télécom SudParis, we designed the STEP tool, Transformation System for Parallel Execution (<http://picoforge.int-evry.fr/projects/svn/step/>).

STEP is a software infrastructure to produce executable code for a distributed memory architecture (message passing) made of multi-core processors (threads) from a source code containing compilation directives (a la OpenMP).

**Job description:**

- Work in the development of the STEP tool
- Test of the STEP tool transformations for different target architectures

**Expected skills and knowledge:**

- Engineer or post-PhD (depending on applicant's profile),
- Good knowledge of theory and practice of High Performance Computing and especially parallel algorithms,
- Good knowledge of parallel programming (with MPI and OpenMP) and compilation.

**Contract:**

- Type: fixed term contract
- Duration: 12 months,
- Contract starting date: open position,
- Gross salary: around 2500 euros per month,
- Location: Télécom SudParis (ex INT) - 9, rue Charles Fourier - 91011 EVRY CEDEX (30km south of Paris) - FRANCE.

**How to apply:**

- Application letter (pdf format): including CV, two names of referees, two letters of recommendation
- Selection: letters and interviews,
- Deadline: as soon as possible,
- Contact: Frédérique Silber-Chaussumier / +33 1 60 76 45 65  
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