



WORK OFFER

Ref. No. PT-2019-18

Employer Information

Employer: INESC-ID - Instituto de Engenharia de Sistemas e Computadores - Investigação e Desenvolvimento
Instituto Superior Técnico, Universidade de Lisboa
Rua Alves Redol, 9
Lisboa
Portugal

Website: www.inesc-id.pt

Location of placement: Lisbon
Nearest airport: Lisbon Airport (LIS)
Working hours per week: 35.0
Working hours per day: 7.0

Number of employees: 6
Business or products: Not-for-profit research institute

Student Required

General Discipline: 11-COMPUTER AND INFORMATION SCIENCES
Field of Study: 11.0101-Computer and Information Sciences, General.

Completed years of study: 3
Language required: English Excellent Or Spanish Excellent Or Portuguese Excellent

Required Knowledge and Experiences:
Specialization: Parallel Computing

Other requirements:
M.Sc. students only.

OpenMP, MPI

Work Offered

The main goal of this project is to develop a numerical tool capable of simulating a variety of physical and engineering problems in complex geometries, computing the solution of the problem locally without the need of solving the entire problem. This extremely powerful tool could help engineers to simulate within a prescribed accuracy and almost in real time a variety of possible configurations of the geometry, looking for an optimal design prior to the stage of manufacturing.

The numerical tool will be based on a multilevel Monte Carlo method, the geometry discretized using the classical finite elements techniques, and the algorithm parallelized using MPI/OpenMP.

Number of weeks offered: 12 - 12
Working environment: Research and development

Within the months: 01-MAY-2019 - 31-JUL-2019
Gross pay: 745 EUR / Month

Or within: -
Deduction to be expected: None

Holidays: -
Payment method / frequency: /

Accommodation

Canteen at work: Yes

Expected type of accommodation: Shared apartment
Estimated cost of lodging: 400 EUR / Month

Accommodation will be arranged by: Student (with assistance of IAESTE Portugal)
Estimated cost of living incl. lodging: 650 EUR / Month

Additional Information

The period offered is 3 months. Calendar months, not weeks.

This is a PRE AC EXCHANGE offer. IAESTE Portugal will require an offer in return at the AC, regardless of the student's acceptance.

Nomination Information

Deadline for nomination: 31-MAR-2019
Please send nominations by: Exchange Platform

Date: 14-JAN-2019
On behalf of receiving country: Silvia Santos

PORTUGAL