

English version

## THE RESEARCHER'S MOBILITY PORTAL • PORTUGAL



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## For Organisations

**Identificação da Instituição:**  
**Universidade de Coimbra - Centro de Atendimento do Serviço de Gestão de Recursos Humanos da Administração**  
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Unique identifier: 09969884-64d0-4ffa-9588-dad239f2a8ef

## English

### 1. Descrição do cargo/posição/bolsa

#### 1. Job description

**Job:**

Research Grant

**Job/Fellowship Reference:** Development of Computational Fluid Dynamic models for fixed bed reactors

**Main research field:** Not available

**Sub research field:****Job summary:**

The University of Coimbra offers a research grant to work on Project "A Multiscale Simulation-Based Design Platform for Cost-Effective CO2 Capture Processes using Nano-Structured Materials (NanoSim) - NMP4-SL-201

**Job description:**

The University of Coimbra offers a research grant to work on Project "A Multiscale Simulation-Based Design Platform for Cost-Effective CO2 Capture Processes using Nano-Structured Materials (NanoSim) - NMP4-SL-201, with the following characteristics:

Number of grants: 1 vacancy.

Type of activity: Develop Computational Fluid Dynamic models for fixed bed reactors. Work will be completed as part of a European Union sponsored project with a consortium of academic and industrial partners which aims to develop a multiscale simulation platform for designing efficient processes for energy conversion with integrated CO2 capture.

The candidate will work closely with other specialists involved in the project in order to contribute effectively to the multiscale simulation platform being developed. In particular, the position will feature close collaboration with multiphase flow modelling experts at SINTEF Materials and Chemistry (Norway) which is also leading the project.

Financial support: Project EU

Applicant profile: Master Degree in Chemical Engineering, Mechanical Engineering or related fields  
 Location: University of Coimbra and SINTEF (Norway).

Duration: 36 months.

Renewal: Non renewable.

Scientific Orientation: The scientific orientation of the grant will be ensured by PhD. Rosa Maria de Oliveira Quinta Ferreira and PhD. Shahriar Amin.

Financial conditions: The amount of the scholarship is 980,00€, paid monthly at the end of the month by bank transfer. This amount is increased by the voluntary social security corresponding to the first level, in case the candidate elects this possibility, as well as personal accidents insurance. The scholarship includes a PhD fee (€ 2,750 / year) and a subsidy of 730 € / month during the 24 months of scholarship taking place in Norway, to cover travel costs, international transport and installation in Norway. The value of the grant will not increase over the whole period of its duration.

Regime: The attribution of the scholarship does not generate or entitle a relation of a legal-labour nature, is undertaken in an exclusive dedication regime and attributed to the Scholar within the Scholar Statute of

the University of Coimbra, based on the Regulation of Research Grants of the Foundation for Science and Technology (FCT).

Selection methods: CV analysis - 70%; Interview - 30%

Selection and attribution criteria: The CV analysis will be composed of the following criteria:

- a. Academic background: 30%
  - i. Fluid dynamics and reactor technology (10%)
  - ii. Numerical modelling (10%)
  - iii. Experience with CFD packages Fluent and OpenFOAM (10%)

b. English written communication skills: 30%  
c. Historical academic performance: 20%  
d. Quality of the presentation of the Cover Letter where all the items may be addressed: 10%  
e. Other (e.g. leadership, extramural activities): 10%  
Formalization of application: The applications must be formalized by sending a letter of intention addressing the above mentioned Selection Criteria, a CV, certified copies of certificates of education and other relevant documents, list of publications and names of three references with e-mail addresses and phone numbers.

All the documents shall be written in English

Submission of the application: Applications should be sent by electronic mail to:  
rqfgrants@eq.uc.pt

Jury responsible for selection: PhD. Abdelghafour Zaabout, PhD. Rosa Maria de Oliveira Quinta Ferreira, PhD. Shahriar Amin.

Deadline to submit applications: Between 20-05-2014 and 20-06-2014.

Publication date: 19-05-2014

Deadline for submittal of applications: 20-06-2014

Additional information: The evaluation results will be announced within 90 working days after the deadline for submission of applications, by sending communications to applicants via email. After the release of the results, candidates are considered automatically notified to. If they wish to do so they can comment on the results on a preliminary hearing period within 10 days after that date. The selected candidate will have to declare in writing his acceptance and communicate the effective date of the beginning of the scholarship. Unless a justification worthy of consideration is presented, if the declaration is not submitted within the referred period, it is considered that the candidate waives the scholarship. In case of resignation or withdrawal of the selected candidate, the next candidate with the highest evaluation score will be notified immediately.

**Vacant posts:** 1

**Type of contract:** Temporary

**Job country:** Portugal

**Job city:** University of Coimbra and SINTEF (Norway)

**Job company/institute:** University of Coimbra

**Application deadline:** 20 Junho 2014

*(The Application's deadline must be confirmed on the Job Description)*

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## 2. Dados de contactos da organização 2. Organization contact data

**Organization/institute:** Identificação da Instituição: Universidade de Coimbra - Centro de Atendimento do Serviço de Gestão de Recursos Humanos da Administração

**Address:**  
Edifício da Faculdade de Medicina, 1.º andar, Pólo I, Rua Larga  
Coimbra - 3004-504  
Portugal

**Email:** [sgrh@uc.pt](mailto:sgrh@uc.pt)

**Website:** *not available*

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## 3. Habilitações académicas 3. Required education Level

*Empty*

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## 4. Línguas exigidas 4. Required languages

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