

English version

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Unique identifier: 4c02f1b2-f9ba-413b-9287-a63f01900283

English

Português

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

#### Job:

Research Grant for candidates with master's degree

**Job/Fellowship Reference:** ICoSyTec - 027990-UM.1.18

**Main research field:** Engineering

**Sub research field:** Materials Engineering

#### Job summary:

A call is open to award one research grant to develop research activities within the I&D Project ICoSyTec - Innovative construction system for a new generation of high performance buildings, POCI-01-0145-FEDER-027990, financed by the FCT and co-funded by FEDER through Operational Competitiveness and Internationalization Programme (POCI).

#### Job description:

A call is open to award one research grant to develop research activities within the I&D Project ICoSyTec - Innovative construction system for a new generation of high performance buildings, POCI-01-0145-FEDER-027990, financed by the FCT and co-funded by FEDER through Operational Competitiveness and Internationalization Programme (POCI), in the following conditions:

**Research Field:** Materials Engineering

**Requirements for admission:** Master in Materials, Polymers, Textile, Aeronautics, Mechanics, Civil Engineering or related. Fluent in written and spoken English. The candidates with master degree, and those with Undergraduate Degree and Master must have an average final classification  $\geq 14$  in 20. For the evaluation of the final average classification of the candidates with Undergraduate Degree and Master, it will be attributed a weight of 60% to the final classification in the Undergraduate Degree and 40% to the final classification in the Master.

**Work plan:** 1) Assessment of technical and economic benefits of the new constructive system; 2) Development of a prefabricated 3D system built in composite materials (3D-SRT) for the reinforcement of high performance fiber reinforced self-compacting concrete (HPFRSCC); 3) Evaluation of the physical and mechanical properties of the 3D-SRT from experimental tests; 4) Collaboration on the experimental characterization of the behavior of HPFRSCC reinforced with 3D-SRT; 5) Collaboration on the evaluation of the behavior of structural elements in 3D-SRT/HPFRSCC; 6) Collaboration on the development of the guidelines for the design, construction and quality control of the proposed constructive system.

**Applicable legislation and regulations:** Law Nº. 40/2004, of 18 August (status of the scientific researcher fellow); Regulation of the research grants of the Portuguese Foundation for Science and Technology. (<http://www.fct.pt/apoios/bolsas/regulamento.phtml>)

**Work place:** The research work will be developed at the School of Engineering of University of Minho (ISISE – Institute for Sustainability and Innovation in Structural Engineering), under the scientific supervision of Professors Joaquim Barros and Raul Fangueiro.

**Duration of the Grant:** The grant will have the duration of 12 months, beginning in September 1, 2018, eventually renewed up to the maximum of 28 months into the timetable for the project.

**Monthly value of the grant:** The value of the grand corresponds to €980, according to the pay scale for the grants funded directly by FCT, I.P. in Portugal (<http://alfa.fct.mctes.pt/apoios/bolsas/valores>).

**Selection criteria:** The selection methods will be the following:

45% for the final grade of the course (candidates with Undergraduate Degree plus master, will be assigned a weight of 60% to the final grade of the Undergraduate Degree and 40% to the final grade of the master);

25% for publications (6 points for ISI journals, 3 points for non ISI journals, 2 points for international conferences, 1 point for national conferences, 0.5 points for technical/scientific reports);

10% for project participations (10 points for each project, with 5 bonus points if the project is related to the topic of the current project);

20% for the interview.

**Jury:**

Joaquim António Oliveira de Barros, Adjunct Professor at ESTGV-IPV (President)

Raul Manuel Esteves Fanguero , Full Professor at UM (Effective vogal)

José Manuel de Sena Cruz, Associate Professor at UM (supplent)

Salvador José Esteves Dias, Assistant Professor at UM (Effective vogal)

**Publicitation/notification of results:** the final results will be sent by email to the candidates.

**Application period and structure of the application:** The call is open from 05/06/2018 to 18/06/2018.

Applications must be made through an application letter together with the following documents: *Curriculum Vitae, certificates of graduation degrees and other documents considered relevant.*

Applications must be delivered personally during the period from 9h to 17h at the address indicated below, or sent by post to Prof. Joaquim António Oliveira de Barros, Departamento de Engenharia Civil da Escola de Engenharia da Universidade do Minho, 4800-058, Guimarães, Portugal. The documents can also be send by email: [barros@civil.uminho.pt](mailto:barros@civil.uminho.pt), or by fax: (+351) 253 510 217.

**Vacant posts:** 1

**Type of contract:** Information not available

**Job country:** Portugal

**Job city:** Guimarães

**Job company/institute:** Universidade do Minho

**Application deadline:** 18 Junho 2018

*(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**

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**Organization/institute:** ISISE - Institute for Sustainability and Innovation in Structural Engineering

**Address:**  
Universidade do Minho - Dep. de Engenharia Civil - Campus de Azurém  
Guimarães - 4800-058  
Portugal

**Email:** [isise@civil.uminho.pt](mailto:isise@civil.uminho.pt)

**Website:** <http://www.isise.net>

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**3. Habilitações académicas**  
**3. Required education Level**

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**4. Línguas exigidas**  
**4. Required languages**

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**5. Experiência exigida em investigação**  
**5. Required research experience**

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