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Universidade do Minho - Centro ALGORITMI

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Português

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

Cargo/posição/bolsa:

Post-Doctoral grants

Referência: FIBR3D/BPD1/2017

Área científica genérica: Engineering

Área científica específica:

Resumo do anúncio:

The University of Minho, has available two position for Post-Doctoral grants, for PhD holders in the framework of the project "Hybrid processes based on Additive Manufacturing of thermoplastic matrix composites reinforced with long or continuous fibers", POCI-01-0145-FEDER-016414 reference n° FIBR3D/BPD1/2017, co-funded by COMPETE 2020 - Operational Program for Competitiveness and Internationalization (POCI), Portugal 2020, with the support of the European Regional Development Fund (FEDER) and the State Budget through the Foundation for Science and Technology

Texto do anúncio

The University of Minho, has available two position for Post-Doctoral grants, for PhD holders in the framework of the project "Hybrid processes based on Additive Manufacturing of thermoplastic matrix composites reinforced with long or continuous fibers", POCI-01-0145-FEDER-016414 reference n° FIBR3D/BPD1/2017, co-funded by COMPETE 2020 - Operational Program for Competitiveness and Internationalization (POCI), Portugal 2020, with the support of the European Regional Development Fund (FEDER) and the State Budget through the Foundation for Science and Technology under the following conditions:

Scientific Area: Systems Engineering

Admission requirements: Candidates must hold a PhD Degree in Systems Engineering, Mechanical Engineering Informatics Engineering, Computer Science, or related areas.

Priority will be given to candidates having computer programming skills (preferably in Perl and C++) and knowledge in Systems Engineering (preferably in Optimization - linear / non-linear).

Work plan: The training program will be carried out within the research group to develop and implement optimization algorithms for 3D printer based on Additive Manufacturing. The optimization algorithms will be slicing strategy and extrusion path planning. Several strategies will be tested and implemented, like multi-objective (Evolutionary Algorithms, MultiSearch Algorithms) and global optimization algorithms (Simulated Annealing, Evolutionary Algorithms).

Legislation and regulations: Law n.º 40/2004 of 18 August (Scientific Research Fellowships Statutes), modified by Decree-Law 202/2012 of 27 August and by Law No. 12/2013 of 29 January 2013, Regulation of Research Grants provided by the Portuguese Foundation for Science and Technology (Fundação para a Ciência e Tecnologia, FCT), (<http://www.fct.pt/apoios/bolsas/regulamento.phtml>).

Workplace: Training activities will be developed at ALGORITMI research center, School of Engineering, University of Minho, under the scientific supervision of Prof. António Ismael de Freitas Vaz.

Duration: The research grant will last for three (3) months and is planned to begin on May 1st, 2017. The research grant may be renewed for an equal period, until the maximum duration for the FIBR3D project is reached or any other restriction by applicable law.

Monthly amount: According to the abovementioned legislation, the amount of monthly allowance is € 1495 (Post-Doctoral Grants (BPD)), tax free in Portugal (<http://alfa.fct.mctes.pt/apoios/bolsas/valores>).

Selection methods: Selection will be made through experience and demonstrated accomplishments in the requirements (40%), academic merit (40%), and personal interview (20%).

The jury reserves the right not to award the Post-Doctoral fellowship if any of the candidates comply with the requirements.

Selection Jury: The Jury is composed by the President, Professor António Ismael de Freitas Vaz, and the academic staff members, Professor José Manuel Valério de Carvalho and Professor Maria Teresa Torres Monteiro. Professor Ana Isabel Pinheiro Nunes Pereira will act as substitute.

Form of advertising/notification of results: The final results will be published through a ranking list according to the final score. It will be posted in a public location at ALGORITMI Research Center. The successful candidate will be notified by e-mail.

Deadline for application form and submission of applications: Applications must be submitted between 17th and 30th of March 2017 including a cover letter and the following documents: Curriculum Vitae, qualification certificate (copy) and other documents considered relevant.

Applications should be sent by e-mail (To: "ismael.vaz@algoritmi.uminho.pt"; with subject: "FIBR3D Project Application - FIBR3D/BPD1/2017") or delivered in person during the period between 09:00 and 12:30 and 14:00 and 17:30 in the following address:

Centro de Investigação ALGORITMI

Escola de Engenharia da Universidade do Minho

Campus de Azurém, 4800-058 Guimarães

A/C Prof. António Ismael de Freitas Vaz

Número de vagas: 2

Tipo de contrato: Informação não disponível

País: Portugal

Localidade: Guimarães

Instituição de acolhimento: Universidade do Minho

Data limite de candidatura: 30 March 2017

(A data limite de candidatura deve ser confirmada no texto do anúncio)

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

Instituição de contacto: Universidade do Minho - Centro ALGORITMI

Endereço:
Campus Azurém
Guimarães - 4800 -058 Guimarães
Portugal

Email: secretaria@algoritmi.uminho.pt

Website: <http://algoritmi.uminho.pt>

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4. Línguas exigidas 4. Required languages

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5. Experiência exigida em investigação
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