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1. Descrição do cargo/posição/bolsa

1. Job description

Job:

Scholarship: Research Scholarship (BI) for Master

Job/Fellowship Reference: ISR-ColLeCTE-BI

Main research field: Engineering

Sub research field: Electronic engineering

Job summary:

The Systems and Robotics Institute - Coimbra (ISR-Coimbra) opens a call for a period of one (1) Research Grant (BI) for a Master within the scope of the Scientific Research and Technological Development Project (IC&DT) ColLeCTE - "Collaborative Learning for the Coordination of Transactive Energy Systems "with reference to ISR-ColLeCTE, with financial support from FCT / MCTES through national funds, fully financed by **UIDB / 0048/2020**.

Job description:

Scholarship: Research Scholarship (BI) for Master

Reference: ISR-ColLeCTE-BI

Application period: December 23, 2020 to January 12, 2021

The Systems and Robotics Institute - Coimbra (ISR-Coimbra) opens a call for a period of one (1) Research Grant (BI) for a Master within the scope of the Scientific Research and Technological Development Project (IC&DT) ColLeCTE - "Collaborative Learning for the Coordination of Transactive Energy Systems "with reference to ISR-ColLeCTE, with financial support from FCT / MCTES through national funds, fully financed by UIDB / 0048/2020.

Scientific Area: Electrical and Computer Engineering, Computer Engineering, Physical Engineering, Physics, Mathematics, Biomedical Engineering, or alike.

Admission requirements: This competition may be attended by PhD students, or by masters enrolled in non-academic degree courses. Candidates should preferably have good knowledge of Matlab or Python programming. Knowledge in artificial intelligence techniques (Machine Learning) is also valued.

Work Plan: Research activities will be carried out to design a federated learning structure to guarantee the forecast of prosumption at the level of buildings in the context of transitional energy systems. The goal is to use the data available in each building to increase the reliability of forecasts in all buildings in the same community, while ensuring concerns about the privacy of each building's data. It is also intended to define the data and communication infrastructure required for implementation. This protection has the collaboration of Carnegie Mellon University and Comillas Pontifical University of Madrid.

Value of monthly maintenance allowance: The amount of the scholarship corresponds to € 1,064.00, according to the table of scholarship values ??directly attributed by FCT, I.P. in the country, <http://www.fct.pt/apoios/bolsas/valores> e (<https://www.fct.pt/apoios/bolsas/regulamento.phtml>.pt).

Duration of the scholarship: The scholarship will have a duration of 3 months, with the possibility of renewal during the duration of the project, which has an estimated end date of December 31, 2021 according to the performance of the fellow, on a exclusivity, according to the FCT regulation of advanced training of human resources.

Formalization of applications: Applications must be sent in pdf format to the following email addresses, **lara@isr.uc.pt** and **pmoura@isr.uc.pt**, with the subject of the email: **ISR-ColLeCTE-BI**. The following documentation must be sent: (1) Curriculum Vitae (CV), (2) certificate of qualification including breakdown of grades obtained in the subjects of the respective course and final grade, (3) academic record (breakdown of ratings obtained in the disciplines) of the master's degree, and (4) motivation letter. The CV must include: (i) contact; (ii) academic training; (iii) list of scientific publications; (iv) main projects in which he participated; and (v) other information considered relevant. Applicants with academic degrees obtained abroad must present a certificate of recognition in accordance with applicable law.

Deadline for formalization of the application: The contest is open from **December 23, 2020 to January 12, 2021**

Workplace: the work will be developed at the premises of the Systems and Robotics Institute - University of Coimbra (ISR-UC), under the scientific guidance of Professor Doctor Pedro Manuel Soares Moura.

Selection methods: The selection methods to be used will be the following: curriculum evaluation, with a 50% rating for academic qualifications and 50% for the degree of satisfaction of the requirements regarding knowledge and experience for the project. If the Jury deems it necessary, an interview can be conducted to the candidates placed in the first three positions according to the ranking resulting from the previous criteria. In this case, the score is 20%. If none of the candidates has the appropriate profile (overall evaluation below 60%), the scholarship will not be awarded.

Composition of the Selection Jury: President: Professor Doctor Pedro Manuel Soares Moura, Members: Doctor Jérôme Amaro Pires Mendes, Professor Doctor Aníbal Traça de Almeida.

Applicable legislation and regulation: Statute of the Scientific Research Fellow, approved by Law nº 40/2004 of August 18, amended and republished by Decree-Law nº 202/2012 of August 27, by Decree-Law nº 89/2013 of 9 of July, by Decree-Law No. 233/2012 of October 29, and by Law No. 12/2013 of January 29, and amended by Decree-Law No. 123/2019 of August 28, as amended (<https://www.fct.pt/apoios/bolsas/estatutobolseiro>) and FCT Research Scholarship Regulation, P, in force (<https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>).

Form of publicity / notification of the results: the final results of the evaluation will be published, through a list ordered by the final grade obtained, with the candidates being notified by email. After disclosing the results via email, candidates must consider themselves notified from the outset in order to, if they wish, give their opinion at a prior hearing within a maximum period of 10 working days after that date. At the end of this period, the selected candidates must consider themselves invited to start the scholarship.

Vacant posts: 1

Type of contract: Temporary

Job country: Portugal

Job city: Coimbra

Job company/institute: ISR

Application deadline: 12 Janeiro 2021
(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: Instituto de Sistemas e Robótica (ISR)- Pólo de Coimbra
Universidade de Coimbra

Address:
Universidade de Coimbra - Polo II
Coimbra - 3030-290 COIMBRA
Portugal

Email: pmoura@isr.uc.pt

Website: <http://www.isr.uc.pt/>

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3. Habilitações académicas

3. Required education Level

Empty

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4. Línguas exigidas

4. Required languages

Empty

5. Experiência exigida em investigação
5. Required research experience

Empty