

30/07/2021

RESEARCH INITIATION FELLOWSHIPS | Verão com Ciência 2021 | UID - 00324 Centre for Mathematics of the University of Coimbra – CMUC

Where to apply

Application Deadline: 10/08/2021 23:00 - Europe/London

Contact Details

Where to send your application.

COMPANY

Universidade de Coimbra

E-MAIL

silvia@mat.uc.pt

Hiring/Funding Organisation/Institute

ORGANISATION/COMPANY

Universidade de Coimbra

COUNTRY

Portugal

DEPARTMENT

Divisão de Projetos e Atividades (Bolsas)

CITY

Coimbra

ORGANISATION TYPE

Higher Education Institute

STREET

Rua Larga

WEBSITE<https://www.uc.pt/administracao/dpa>**ORGANISATION/COMPANY**

Universidade de Coimbra

LOCATION

Portugal › Coimbra

RESEARCH FIELD

Mathematics › Computational mathematics

TYPE OF CONTRACT

Temporary

RESEARCHER PROFILE

First Stage Researcher (R1)

JOB STATUS

Full-time

APPLICATION DEADLINE

10/08/2021 23:00 - Europe/London

HOURS PER WEEK

35

OFFER DESCRIPTION

CALL FOR RESEARCH INITIATION FELLOWSHIPS

The University of Coimbra opens a call for 7 Research Initiation Fellowship, in the framework of the R&D Centre for Mathematics of the University of Coimbra – CMUC (reference: UID - 00324), with the title Verão com Ciência 2021, under the special support Verão com Ciência 2021, financed by the Portuguese Science Foundation – Fundação para a Ciência e a Tecnologia, I. P./MCTES – FCT; Fundos Nacionais (PIDDAC, in the following conditions:

Scientific area: Computational Mathematics.

Skills/Qualifications/Admission requirements: B.Sc. or Master students in mathematics or related areas (mathematics, physics, engineering).

Research Initiation Fellowships cannot be awarded to those who have already benefited from research fellowships directly or indirectly financed by the FCT (regardless of the type).

Although the recipients must be enrolled in a cycle of studies leading to the attribution of an academic degree or, at the time of application it is not necessary for the candidate to have made such an enrollment, and proof of enrollment must be presented until the fellowship is contractualized. Candidates are only required to meet the requirements to enroll in the training offer. If there are candidates already enrolled (including attending a course), they compete on an equal footing with those who are not enrolled.

Work plan/ Objectives: The fellow will develop a short research project under the guidance of a researcher from the Department of Mathematics of the Faculty of Science and Technology of the University of Coimbra. Four different topics are offered, in the framework of the following R&D internships:

1 - Watermarking scheme for digital images

Number of students: 1 or 2

Scientific supervision: Adérito Araújo (CMUC, Department of Mathematics, University of Coimbra);

2 - Computational enumeration of negatively autopolar polyhedra

Number of students: 2

Scientific supervision: João Gouveia (CMUC, Department of Mathematics, University of Coimbra);

3- Encryption/Cryptanalysis, RSA Public Key Cipher

Number of students: 2

Scientific supervision: Pedro Quaresma (CISUC, Department of Mathematics, University of Coimbra);

4 - Information classification

Number of students: 1 or 2

Scientific supervision: Sílvia Barbeiro (CMUC, Department of Mathematics, University of Coimbra).

At the end of the fellowship, participants will have to prepare a brief report about the work developed.

Regime: The attribution of the fellowship does not generate or entitle a relation of a legal-labour nature, and the fellowship is undertaken in an exclusive dedication regime. The fellowship holder is awarded the Fellowship Statute of the UC, in its current wording, according to the Research Fellowship Holder Statute, and according to the Regulation for Research Fellowships of the Fundação para a Ciência e a Tecnologia, I.P., both in their current wording.

Location: Department of Mathematics of the Faculty of Sciences and Technology of the University of Coimbra.

Duration: 1 month.

Renewal: The fellowship is non-renewable.

Scientific orientation: Professor Sílvia Alexandra Alves Barbeiro.

Financial conditions: The amount of the fellowship is € 446,12 corresponding to the monthly compensation stipulated in the FCT table (<https://www.fct.pt/apoios/bolsas/valores.phtml.en>), plus personal accidents insurance. The payment will be made by bank transfer. This amount will not be increased during the entire period of the fellowship duration.

Selection methods: Academic curriculum (100%).

Selection criteria: The evaluation of the academic curriculum is based on the following criteria:

i) Curricular history evaluation (30%);

ii) Suitability of the profile (70%). The following sub-criteria will be considered: training and work done in the fields of linear algebra, discrete mathematics and analysis (50%); programming work and training in modeling and/or numerical simulation (50%).

Jury responsible for selection: Professor Adérito Luís Martins Araújo, Professor João Eduardo da Silveira Gouveia, Professor Sílvia Alexandra Alves Barbeiro.

Formalization of application: Documents required for the application: Letter of motivation, detailed curriculum vitae and declaration on their honor from the candidate(s) indicating the number of similar fellowships that he/she was awarded and their duration.

Applicants with academic degrees obtained abroad will be required to present a Certificate of Recognition in accordance with applicable law. This document is mandatory only in the contractualization phase.

Applications submission: Applications must be sent by email to: silvia@mat.uc.pt (Professor Sílvia Barbeiro).

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Submission of applications: Between 04/08/2021 and 10/08/2021.

Submission deadline date: 10/08/2021.

Additional information: The evaluation results will be announced within 90 working days after the end of the applications submission deadline, by notifying the applicants via email. After the announcement of the results, candidates are considered automatically notified to, if they wish to do so, comment on the results on a preliminary hearing period within 10 days after that date. After this, the selected candidates will have to declare in writing their acceptance. 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 fellowship. In case of resignation or withdrawal of the selected candidate, the next candidate with the highest evaluation score will be notified immediately.

Once the selection process is completed, the fellowship contract will be drawn up in accordance with the draft contract provided by the FCT.

After the contracted period, the fellowship holder and supervisor must prepare the final report in accordance with the respective assessment criteria that were established.

Selection reserve list: N.A.

More Information

ADDITIONAL INFORMATION

Benefits

Financial conditions: The amount of the fellowship is € 446,12 corresponding to the monthly compensation stipulated in the FCT table (<https://www.fct.pt/apoios/bolsas/valores.phtml.en>), plus personal accidents insurance. The payment will be made by bank transfer. This amount will not be increased during the entire period of the fellowship duration.

Eligibility criteria

Selection methods: Academic curriculum (100%).

Selection criteria: The evaluation of the academic curriculum is based on the following criteria:

- i) Curricular history evaluation (30%);
- ii) Suitability of the profile (70%). The following sub-criteria will be considered: training and work done in the fields of linear algebra, discrete mathematics and analysis (50%); programming work and training in modeling and/or numerical simulation (50%).

Web site for additional job details

http://www.uc.pt/administracao/dpa/bolsas/editais/bii_755884_ff

REQUIREMENTS

Offer Requirements

Skills/Qualifications

Skills/Qualifications/Admission requirements: B.Sc. or Master students in mathematics or related areas (mathematics, physics, engineering).

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contractualized. Candidates are only required to meet the requirements to enroll in the training offer. If there are candidates already enrolled (including attending a course), they compete on an equal footing with those who are not enrolled.

Map Information



Job Work Location



Personal Assistance locations

WORK LOCATION(S)

7 position(s) available at
Universidade de Coimbra
Portugal
Coimbra

EURAXESS offer ID: 670355

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