

**Mediterranean Institute for Agriculture, Environment, and Development (MED)**

**Research Scholarship for Bachelor's Degree Holders - 2 vacancies**

**November 25, 2024**

A call is open for the awarding of two (2) Research Scholarships (BI) for a Bachelor's Degree, under the project "GEDI4SMOS: Development and testing of computationally efficient methodologies for the combined use of LiDAR, radar, and multispectral data for national characterization of vegetation cover for land occupation mapping purposes," with the reference CCA931573, funded by the Directorate-General for Territory (DGT), under the following conditions:

**Scientific Area:** Geography, Engineering, and Earth Sciences.

**Admission requirements:** being enrolled in a Master's degree program in one of the scientific areas mentioned in the previous point. Graduates in areas related to Geography, Engineering, and Earth Sciences, or related areas, with skills in:

- i) spatial modeling in Geographic Information Systems (GIS) in any thematic area, and/or;
- ii) photointerpretation of aerial or satellite images and/or processing of satellite images, and/or;
- iii) land use/land cover mapping.

According to the FCT Research Scholarship Regulations No. 950/2019 of December 16, 2019, articles 3 and 6, candidates for BI must meet, as a general condition for the awarding of the scholarship, effective enrollment in study cycles leading to the awarding of academic degrees or in non-degree courses. Non-degree courses correspond to the courses provided for in subparagraph e) of paragraph 3 of article 4 of Decree-Law No. 74/2006 of March 24 and should be developed in a higher education institution in association with at least one R&D unit, including the course plan in one or several research areas of the unit.

**Work Plan:** Develop and implement methodologies for producing land use/land cover mapping based on spatial modeling in GIS, visual interpretation of aerial and satellite images, and digital processing of satellite images, specifically mapping of interest for the Land Cover Monitorization System (SMOS) (<https://smos.dgterritorio.gov.pt/>).

**Applicable legislation and regulations:** The granting of the Research Scholarship will be carried out upon the signing of a contract between the University of Évora and the scholarship holder, according to the version in **Annex I**, pursuant to the Research Scholarship Statute (Law no.



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40/2004 of August 18, as amended) and considering the provisions of other applicable legislation and regulations, namely, the Research Grant Regulations of the University of Évora (published by Order no. 8131/2024, of July 22, 2024), and the Research Grant Regulations of the Science and Technology Foundation, I.P. (Regulation no. 950/2019, of July 22, 2024).<sup>o</sup> 8131/2024, of July 22, 2024), <https://files.diariodarepublica.pt/2s/2024/07/140000000/0035300366.pdf> and in the Research Grants Regulations of the Foundation for Science and Technology, I.P. (Regulation no. 950/2019, of December 16, as amended).

**Place of Work:** The work will be carried out at the Mediterranean Institute for Agriculture, Environment, and Development (MED) at the University of Évora, and at the headquarters of the Directorate-General for Territory in Lisbon, under the general coordination of the Administrator of the University of Évora and the scientific supervision of: Scholarship 1 - Dr. Sérgio Godinho and Dr. Pedro Benevides; Scholarship 2 - Dr. Sérgio Godinho and Dr. Hugo Costa.

**Duration of the Scholarships:** The scholarship will have a duration of 12 months, starting on January, 2025, with the possibility of renewal.

**Monthly Maintenance Allowance:** The amount of the scholarship is €990.98, according to the table of values for scholarships awarded directly by FCT, I.P. in the country ([https://www.fct.pt/wp-content/uploads/2024/02/Tabela-de-Valores-SMM\\_atualizacao-2024.pdf](https://www.fct.pt/wp-content/uploads/2024/02/Tabela-de-Valores-SMM_atualizacao-2024.pdf)), with payments made monthly by check or bank transfer.

**Selection Methods:** The selection methods to be used are as follows: curricular evaluation with an eliminatory character, and an interview to assess knowledge and experience, personal motivation, and interest in the position.

After ranking the candidates based on the curricular evaluation, the top 10 candidates will be interviewed. Candidates with a curricular evaluation score below 10 points will not advance to the interview stage. The final score will be the weighted average of the curricular evaluation and the interview, with the following weighting factors:

- 0.4 for the curricular evaluation;
- 0.6 for the interview.

Candidates with a final score below 10 points will not be selected for the scholarship.

The curricular evaluation will be based on the certificates of academic degrees and the documents referred to in items (iv) to (vi) of the “Documentation to be submitted” section.

The selection criteria to be used in the curricular evaluation are as follows:

- A) Bachelor's degree and/or master's degree courses in GIS and/or remote sensing (scale of 0 to 2)
- 0 – Without a degree in GIS and/or remote sensing or
  - 1 – Bachelor's degree in GIS and/or remote sensing and/or
  - 2 – Bachelor's degree and master's degree courses in GIS and/or remote sensing



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- B) Skills in spatial analysis/modeling in GIS (scale of 0 to 6)
  - 0 – No experience or
  - 3 – Some experience or
  - 6 – Very relevant experience
- C) Skills in interpreting aerial photography or satellite images and/or processing satellite images (scale of 0 to 6)
  - 0 – No experience or
  - 3 – Some experience or
  - 6 – Very relevant experience
- D) Skills in land use/land cover mapping (scale of 0 to 6)
  - 0 – No experience or
  - 3 – Some experience or
  - 6 – Very relevant experience

The score for the curricular evaluation (expressed on a scale of 0 to 20 points) will be obtained using the following formula:

- Curricular evaluation score = A + B + C + D

**Composition of the Selection Jury:**

President: Doctor Sérgio Rui Borreicho Coelho Godinho (University of Évora)

1st Member – Doctor Pedro Benevides (DGT)

2nd Member – Doctor Hugo Costa (DGT)

1st Substitute – Doctor Rui Machado (University of Évora)

2nd Substitute – Doctor Tiago Marques (Universidade de Évora)

**Form of Publication/Notification of Results:** The final evaluation results will be made public through a list ordered by final grade, posted in a visible and public place at the Mediterranean Institute for Agriculture, Environment, and Development (MED). Approved candidates will be notified via email.

After communicating the provisional list of the results of the evaluation, candidates have a period of 10 working days to express their opinion in a preliminary hearing of interested parties. Based on the final ranking list, a reserve selection list will be drawn up, to be used for the possible recruitment of new scholarship holders within the scope of this project, up to the duration of the scholarship, which may be used in the eventuality of the first ranked candidate withdrawing, failing to present the mandatory documentation, or in the event of the scholarship holder canceling their scholarship early. In the eventuality that none of the candidates demonstrates the profile required to carry out the work plan, the jury reserves the right not to award the scholarship

**Application Deadline and Submission Process:** The competition is open from December 3 to December 17, 2024, and the selection results will be published by December 31, 2024.



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Applications must be formalized, without exception, by sending a cover letter accompanied by the following documents, under penalty of exclusion:

- i) Photocopy of the citizen card or identity card and the tax identification card;
- ii) Detailed Curriculum Vitae (CV);
- iii) Photocopies of certificates of academic degrees held;
- iv) Document describing competencies in spatial analysis using GIS. This explanation should not refer to the CV but should present all curricular facts that prove the required competencies (e.g., project titles, software used), as well as the context of their acquisition (i.e., course unit, professional context);
- v) Document describing competencies in the interpretation of aerial or satellite images and satellite image processing. This explanation should not refer to the CV but should present all facts that prove the required competencies (e.g., project titles, software used), as well as the context of their acquisition (i.e., course unit, professional context);
- vi) Document describing competencies in land use/land cover mapping, e.g., DGT Land Cover Map, CORINE Land Cover Mapping, National Forest Inventory, and Parcel Mapping. This explanation should not refer to the CV but should present all curricular facts that prove the required competencies (e.g., project titles, software used), as well as the context of their acquisition (i.e., course unit, professional context).

Documents requested in points (iv) to (vi) that exceed one A4 page will not be considered.

For application purposes, proof can be replaced by a declaration of honor from the candidate. However, failure to demonstrate possession of the required degree by the application deadline or failure to present proof of enrollment or registration in a study cycle or non-degree course, for scholarships with that component, will result in the annulment of the candidate's evaluation. Academic degrees obtained in foreign countries need to be registered by a Portuguese Institution according to Decree-Law No. 66/2018, of August 16, and Ordinance No. 33/2019, of January 25. The presentation of the certificate is mandatory for contract signing.

More information can be obtained at:

<https://www.dges.gov.pt/pt/pagina/reconhecimento?plid=374>

**Formalization of applications:** applications should be sent by email to:

Dr. Sérgio Godinho

email: [sgodinho@uevora.pt](mailto:sgodinho@uevora.pt)



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ANNEX I  
MINUTE SCHOLARSHIP CONTRACT

Between,

**FIRST PARTY:** The \_\_\_\_\_ (name of organisation), com sede em \_\_\_\_\_ with registered office at \_\_\_\_\_ (address of registered office of organisation), with tax number \_\_\_\_\_, represented in this act by \_\_\_\_\_ (name of representative of organisation), in the capacity of \_\_\_\_\_ (Director/President) of the contracting/financing organisation, hereinafter referred to as the "First Party", and

**SECOND PARTY:** \_\_\_\_\_ (*name of grantee*), holder of ID card/passport no. \_\_\_\_\_ (*ID card/passport no.*) and taxpayer no. \_\_\_\_\_ (*taxpayer no.*), resident at \_\_\_\_\_ (*address of grantee*), hereinafter referred to as the "Second Party".

whereas,

The application requirements for the award of the scholarship under the call \_\_\_\_\_ (*call identification / call notice reference*) have been met, the process of evaluating the candidates and publicising the results has been completed and the required documentation has been received.

This scholarship contract is entered into in good faith and mutually accepted, under the terms of the Research Fellow Statute, and is governed by the following clauses:

**FIRST CLAUSE**

The First Party undertakes to award the Second Party a grant \_\_\_\_\_ (type of grant and reference of the call for tenders), within the scope of the project \_\_\_\_\_ (type of project) / R&D unit with the reference \_\_\_\_\_ (reference of the project or unit) and with the title \_\_\_\_\_ (title),

*(Reference should be made to the sources of funding for the project/unit).*

*- with 100% OE funding - Mention of funding: financed by the Foundation for Science and Technology, I.P./MCTES through national funds (PIDDAC)*

*- With FEDER co-financing - Mention of funding:*

*Financed by the European Regional Development Fund (ERDF) of the European Union, through (indicate which Operational Programme it finances) Portugal 2030 or other programmes that may succeed it) starting at \_\_\_\_\_ (date of start of the scholarship), for a period of \_\_\_\_\_ months, possibly renewable (as defined in the call for proposals).*

**SECOND CLAUSE**

In the alternative, the FCT Research Grant Regulations apply, of which the Second Party declares that it is aware.

**THIRD CLAUSE**

The Second Party undertakes to carry out the attached work plan, the content of which he/she declares that he/she has taken full cognisance of and accepts unreservedly, from the above-mentioned start date and on an exclusive dedication basis, under the terms of article 5th of the Research Fellow Statute.



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#### FOURTH CLAUSE

The Second Party will carry out the work at \_\_\_\_\_ (*name of the host institution as defined in Article 3(g) of the FCT Research Grant Regulations*), which acts as the host institution, with \_\_\_\_\_ (*name of the supervisor and affiliation institution*) as the scientific supervisor.

#### FIFTH CLAUSE

1. The monthly maintenance allowance awarded is \_\_\_\_\_ (€...,00).
2. The Second Grantor also benefits from personal accident insurance for the duration of the grant, the conditions of which he/she declares to have read and accepted without reservation.
3. The following scholarship components are also added \_\_\_\_\_ (*specify the applicable components in the terms set out in the FCT Research Grant Regulations*).

#### SIXTH CLAUSE

The First Party may cancel the grant and the Second Party may be obliged to refund all or part of the sums received in the following cases:

- a) a) Serious and repeated failure to comply with the Second Party's obligations under the Research Grant Holder Statute and the FCT Research Grant Regulations, for reasons attributable to the Second Party;
- b) b) A negative evaluation of the Second Grantor's performance by the supervisor or the host organisation under the terms of the FCT Research Grant Regulations;
- c) c) False declarations by the Second Granting Party on matters relevant to the award and renewal of the grant or to the assessment of its development.

#### SEVENTH CLAUSE

Without prejudice to the provisions of the previous clause, this contract shall terminate automatically:

- a) Upon completion of the activity plan;
- b) End of the period for which the scholarship is awarded;
- c) Repeated non-compliance by one of the parties;
- d) Revocation by mutual agreement;
- e) Establishment of a legal employment relationship with the host organisation.

#### EIGHTH CLAUSE

1. The rights and duties of the parties are those resulting from the provisions of the Research Fellow Statute.
2. The Second Party declares that he/she has read the Research Fellow Statute and the applicable Regulation(s) and undertakes to comply with their provisions.

#### NINTH CLAUSE

It is agreed between the parties, that in case of need and to settle all questions arising from this contract, the District Court of \_\_\_\_\_ (*name of the District*) shall have jurisdiction, expressly waiving any other.



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#### TENTH CLAUSE

Any changes to be made to the contract in the course of its performance shall be the subject of prior written agreement.

#### ELEVENTH CLAUSE

1. This contract shall take effect on the date it is signed by both parties.
2. The grant awarded under the terms of the FIRST CLAUSE of this contract may be renewed for additional periods of (...) months, up to a maximum of (...) months, under the terms of article 15 of the FCT Scholarship Regulations.
3. [ONLY FOR RESEARCH SCHOLARSHIPS, otherwise withdraw]: The award of the academic degree (or diploma) during the term of this contract shall not affect its effects, and the grant referred to in the preceding paragraph may be renewed at a later date, provided that it is aimed at carrying out activities that are indispensable for the completion of the project (...).
4. The concrete definition of the activities referred to in the previous paragraph is the responsibility of the First Party, after hearing the Second Party and the Scientific Advisor, and they must be included in the agreement to be signed, as provided for in the previous clause.

\_\_\_\_\_, \_\_\_\_\_ of \_\_\_\_\_

**The First Party**

**The Second Party**

(Signature and stamp of the organisation)

(Signature of the grant holder or his/her proxy)

With 100% OE funding



Fundação  
para a Ciência  
e a Tecnologia



REPÚBLICA  
PORTUGUESA  
EDUCAÇÃO

Or with FEDER co-financing:



Fundação  
para a Ciência  
e a Tecnologia



REPÚBLICA  
PORTUGUESA  
EDUCAÇÃO

(Logotipo do  
Programa  
Operacional)



Cofinanciado pela  
União Europeia



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ANNEX II

**FINAL REPORT FORM (Fellowships)**



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UNIVERSIDADE DE ÉVORA  
Largo dos Colegiais, N.º 2  
Apartado 94  
7002-554 ÉVORA PORTUGAL  
Telefone (telephone): +351 266 760 975  
Mail: [cop@uevora.pt](mailto:cop@uevora.pt)

Referência da bolsa (Grant Reference)	
Organização (Organisation)	

**DETALHES DO BOLSEIRO / FELLOWSHIP DETAILS**

Título (Title)	
Nome próprio (Forename)	
Apelido (Surname)	
Organização (Organisation)	
Departamento ou Centro (Department or Centre)	
Supervisor (Supervisor)	

**DETALHES DO PROJETO / PROJECT DETAILS**

Título da Bolsa (Grant Title)				
Referência da bolsa (Fellowship reference)				
Período da bolsa (Period of Review)	Data de Início: (Start Date):		Data do Termo:	





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## OBJETIVOS / OBJECTIVES

Objetivos originais como constam na proposta (Original objectives as presented in the proposal)

Estes objetivos permaneceram válidos durante o período da bolsa, ou  
(These objectives remained valid throughout the Fellowship (*tick box*), or

☐

Estes objetivos foram modificados  
(explique como/ porque no seu relatório)  
(These objectives were changed) (*tick box*).  
(If so please explain how/why in your report)

☐

Novos objetivos (New objectives)

Sumário dos resultados do projeto: descreva em termos simples o seu trabalho de forma a que possa ser divulgado perante uma audiência genérica  
(Summary of project outcomes: In simple terms describe your work in such a way that it could be publicised to a general audience.)

Endereço de página com mais detalhes, se desejar: (Web address with further details if you wish)



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## **RESULTADOS DA BOLSA / OUTCOMES OF THE FELLOWSHIP**

Os principais benefícios das bolsas concedidas pela Universidade de Évora incluem:  
(Major benefits of Évora University Fellowships include:

- i) os impactes potenciais sobre as carreiras dos bolseiros e  
(the potential to impact positively on the careers of individual Fellows and)
- ii) os resultados da investigação  
(the research results)

## **RELATÓRIO DAS ACTIVIDADES DESENVOLVIDAS / REPORT ON WORK UNDERTAKEN**

Utilize o número de páginas necessário (please continue on additional pages as required)

**Participação em conferências científicas, no país e no estrangeiro (nome, local e data)**  
**(Scientific Conference attendances – name, location and date)**



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## RESULTADOS DA INVESTIGAÇÃO (RESEARCH RESULTS)

### Publicações/ Publications

(1) Enuncie quantos resultados da investigação resultaram principalmente da investigação financiada através desta bolsa e indique o tipo (revista, conferência, livro, patente, software, outro).

(Please state how many research results have resulted principally as a result of the research funded through this grant and indicate the type (journal, conference, book, patent, software, other))

	REVISTA (JOURNAL)	ARTIGOS EM CONFERÊNCIAS (CONFERENCE PAPERS)	LIVRO OU TESE (BOOK OR THESIS)	PATENTE (PATENT)	SOFTWARE	OUTRO OTHER
Número total de publicações / Total Number of Publications						
Número de Publicações com arbitragem científica (se diferente do anterior) / Number of Refereed Publications (if different from above)						
Número de Publicações que contêm um coautor estrangeiro / Number of Publications That Contain An International Co-Author						

(2) No caso de Bolseiro de mestrado ou doutoramento, reference os dados relativos à tese: (In the case of Master or Ph.D. Fellowship, please indicate:)

Título da tese/ Thesis title:

Classificação obtida / Classification:

Universidade e data/ University and date:



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- (3) Liste até cinco publicações que resultaram principalmente da investigação financiada através da Bolsa e indique o tipo (revista, ata de conferência, livro, patente, software, outro); se houve coautores estrangeiros ou industriais e se a publicação foi sujeita a arbitragem científica. / Please list up to five significant publications that have resulted principally as a result of the research funded through this grant and indicate the type (journal, conference, book, patent, software, other); whether there was an international or industrial co-author and whether the publication was refereed.

AUTOR(ES) (AUTHOR(S))	TÍTULO (TITLE)	REFERÊNCIA (REFERENCE)				TIPO (TYPE)	Arbitragem? Refereed?	Industrial co-author?	International co- author?
		Revista/Ata de Conf. (Journal/Conference).	ano (year)	Vol./Nº (vol./Nº)	página (page)				
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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### Outros resultados da Bolsa / Other Results of the Fellowship

Indique o calendário para potencial exploração (i.e. conseguido, expectável dentro de 3 anos, expectável dentro de 10 anos, não expectável em 10 anos) e inclua números das patentes, datas, nomes e endereços das empresas, etc., de forma apropriada, nas colunas “detalhes” e “referência” / Please indicate the timescale for potential exploitation (e.g. achieved, expected within 3 years, expected within 10 years, none foreseeable in 10 years) and include patent nos., dates, company names and addresses etc. as appropriate, in the ‘details’ and ‘reference’ columns.

	DETALHES (DETAILS)	REFERÊNCIA / REFERENCE	CALENDAR. / TIMESCALE
Licenças ou Patentes/ Licences or Patents			
Empresa de Spin Off/ Spin Off Company			
Consultadoria Direta/ Direct Consultancy			
Cursos de Formação Industrial/ Industrial Training Courses			
Compreensão Pública de Ciência e Engenharia/ Public Understanding of Science and Engineering			
Outro (especifique) / Other (please specify)			



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**Contribuições Relacionadas Concedidas/Pendentes  
(Related Support Awarded / Pending)**

Indique o nível de apoio à investigação que derivou principalmente como resultado da Bolsa./ Please indicate the level of research support that has arisen principally as a result of the Fellowship.

<b>FONTE DE FINANCIAMENTO (FUNDING SOURCE)</b>	<b>DETALHES (DETAILS)</b>	<b>SUPORTE (€) SUPPORT (€)</b>
Universidade de Évora (desde o início da bolsa) Évora University (from start of Fellowship)		
Outro Organismo Nacional de Investigação /Other National Research Organization		
Outro Organismo Governamental Português / Other Portuguese Government Council		
Empresa / Industrial		
Outra (Other)		
Comissão Europeia / European Commission		
Pendente (Pending)		

**Assinaturas (Signatures):**

<b>Bolseiro (Fellow)</b>
Data (Date):



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ANNEX III

**MODEL OF THE FINAL EVALUATION REPORT ON THE ACTIVITY OF THE SCIENTIFIC  
RESEARCH FELLOW TO BE DRAWN UP BY THE SCIENTIFIC SUPERVISOR**

1. Scientific supervisor of the scholarship:
2. Identification of the grant:
3. Project name:
4. Host organisation:
5. Fellow:

5.1. Critical analysis of the activities and work carried out by the grant holder.

[A brief description of the activities carried out by the grant holder, in accordance with the announcement and the activity plan, and a critical appraisal of the objectives and results achieved by the grant holder].

5.2. Final assessment of the work carried out by the grant holder.

[Reasoned overall appraisal of the work carried out by the grant holder, with a final positive or negative balance, addressing their performance, effort and dedication]

Évora, \_\_\_\_ of \_\_\_\_ 20\_\_

The Scientific Supervisor of the Scholarship, \_\_\_\_ (full name)