Universidade de Évora

Edital

Applications for Admission to the Ph.D. Program in
Earth and Space Sciences
Academic year 2020/2021

1. The program is promoted by:

Universidade de Évora - Instituto de Investigação e Formação Avançada

2. Program Coordination:

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3. Program description:

A – Ability to carry out original, independent research and investigation that extend the frontiers of knowledge in the areas of Earth, Atmospheric and Space Sciences, particularly in the following fields:

Climate, Variability and Climate Change
Turbulence and Diffusion in the boundary layer. Atmospheric pollution and its effects
Solar and Planetary Physics
Weather Space and its impact on the Earth Climate
Observation Systems and Monitoring Techniques of the Atmosphere and Space
Paleoclimate and Geothermic
Geophysical Prospecting
Mineral resources. Mass and energy flux and environmental impacts
Seismology and seismic hazards
Geodynamics, Active Tectonics and Tectonophysics
Image processing and data analysis
Genesis and behavior of geological materials as actors and witnesses of a dynamic planet
Geological materials and their influence on human societies.

B - Ability to conceive, design, adapt and carry out significant research with the required high standards of excellence;
C - Ability to master various techniques and tools for advanced analysis and data processing in Earth, Atmospheric and Space Sciences;
D - Ability to master modeling techniques and advanced numerical simulation in Earth, Atmospheric and Space Sciences;
E – Ability to use instruments for observation, analysis and processing of observed data;
F – Ability to plan, collect and use geological and geophysical field data;
G - Ability to critically analyze, evaluate and synthesize new and complex ideas in this field of knowledge.

4. Specialization areas:

- Physics of Atmosphere and Climate (**available**)
- Geophysics (**available**)
- Geological Processes (**available**)

5. Career opportunities:

The offer of a 3rd cycle of studies in "Earth and Space Sciences", follows the 2nd cycle of studies in Earth and Atmospheric Sciences and is in line with the research that is being carried out at the Institute of Earth Sciences (R & D unit of excellency evaluated and funded by FCT since 1993) and the Physics and Geosciences Departments of the University of Évora. The resulting 3rd cycle program offers advanced knowledge in four areas of specialization, in Earth, Atmosphere and Space subsystems and methodologies for observation, monitoring and modeling of these subsystems, with sharp interdisciplinary potential in emerging fields - from the natural and technological hazards to the development of spectrum technologies for broad application in national (e.g. LNEG, LNEC, IPMA) and international (e.g. ESO, ESA) institutions. The aim of this program is to offer more homogeneous advanced training that is perfectly in tune with Bologna, in Earth and Space Sciences and also better adapt to the high standards of the University in these fields. This advanced training provides expertise, or unique consultant specialization in areas such as: natural and technological hazards (seismic, meteorological and extreme climatic phenomena, landslides, onerous pollution) to support sectors such as territorial ordering and urban and industrial planning, heritage and archaeological management, security and civil protection sector, etc.).

6. Number of registration at DGES:

R/A-Ef 1793/2011/AL01

7. Number of accreditation process by A3ES:

ACEF/1516/13152

8. Program Creation Norm:

Diário da República n.º 89 de 9 de maio de 2018, Aviso n.º 6061

9. General conditions of access and admission:

i **Legal conditions for access to the cycle of studies leading to the ≪Doutor≫ degree (Ph.D. degree)**
The following individuals can apply for a cycle of studies to the ≪Doutor≫ degree (Ph.D. degree):

- holders of a Portuguese Mestre degree (Master degree) or legal equivalent;;
- holders of an undergraduate degree holding a specially relevant academic or scientific curriculum, which is recognized as attesting capacity to carry out this cycle by the competent scientific committee of the higher education institution where they wish to be admitted;
- holders of an academic, scientific or professional curriculum that is recognized as attesting the ability to carry out this cycle of studies by the competent scientific committee of the higher education institution where they wish to be admitted.

ii **Specific admission conditions**
Master's degree in suitable area of Earth and Space Sciences and relevant Curriculum Vitae in this area.

10. Selection Process:

- Academic qualifications: 60%
  - Area of qualifications: 40%
  - Average grade in the highest qualification: 40%
  - Level of qualifications: 20%
- Curriculum analysis: 40%
  - Professional Experience in the area of the program or related fields: 40%
  - Professional Training in the area of the program or related fields: 20%
  - Training in transversal competences: 10%
  - Conference Communications: 20%
  - Scientific publications: 10%

11. Maximum number of admissions

- Maximum number of admissions for candidates with nationality of European Union countries: 5
- Maximum number of admissions for candidates without nationality of countries of the European Union: 4

Depending on the number of applications, there may be transfer of vacancies from the international students applications to the European Union students applications or vice-versa.

12. Tuition fee

- Candidates with nationality of European Union countries: 1250.00 €
- Candidates without nationality of countries of the European Union: 2500.00 €
  - Annual Tuition fee for international students with merit scholarship: 1250.00 €
  - Annual Tuition fee for international students with cooperation and development scholarship: 1450.00 €

All students with international student status who have a weighted average grade with a weight of 60% to the undergraduate degree grade and a weight of 40% to the master degree grade, which is equal to or higher than 16 (in a scale of 0-20), will have a reduced tuition fee in the first year of the program due to the merit scholarship. To maintain this reduced tuition fee in the following years, the student has to pass all curricular units and have an average grade equal or above the minimum merit grade. All students with international student status from PALOP countries, will have a reduced tuition fee in the first year of the program due to the cooperation and development scholarship. To maintain this reduced tuition fee in the remaining years the student has obtain a minimum academic performance.

13. Organization / duration:

a. **Duration of the program:** 7 semesters

b. **Number of ECTS to obtain the degree:** 196

c. **Number of ECTS to obtain the doctorate course (conclusion of the curricular part):** 30

14. Language (s) of teaching:

- Portuguese
- English
- French
- Spanish

15. Learning Type: Presential

16. Schedule type: Mixed

17. Program starting date: September of 2020

January 29, 2020
The Rector

Ana Costa Freitas