Universidade de Évora

Edital

Applications for Admission to the Ph.D. Program in
Earth and Space Sciences
Academic year 2021/2022

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:

This PhD program is aimed at original and autonomous research, which broadens the frontier of knowledge in the areas of Earth, Atmosphere and Space Sciences (CTAE), particularly in the domains: Climate, Variability and Climate Change; Turbulence and diffusion in the boundary layer; Air pollution and its effects; Weather Space and its influence on Earth's Climate; Observation, detection and monitoring techniques for the atmosphere and space; Paleoclimate and Geothermal; Geophysical Prospecting; Mineral resources; Mass and energy flows and environmental impacts; Seismology and seismic risk; Geodynamics, Active Tectonics and Tectonophysics; Image processing; Genesis and behavior of geological materials as actors and witnesses of a dynamic planet; Geological materials and influence on human societies.
It also intends to develop capacities to conceive, design, adapt and carry out an investigation respecting the demands imposed by high standards of excellence, as well as mastering several techniques and tools for advanced analysis and data processing in CTAE. On the other hand, it aims for its students to master advanced numerical modeling and simulation techniques in CTAE and handle observational instrumentation and analysis and treatment of observed data. Students are also expected to be able to plan, collect and handle geophysical and geological data from the field and critically analyze, evaluate and synthesize new and complex ideas in this branch of knowledge.

4. Specialization areas:

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

5. Career opportunities:

The offer of a third cycle in Earth and Space Sciences follows the second cycle in Earth and Atmospheric Sciences (CTE) and the research that is being developed at the Institute of Earth Sciences (R&D unit of excellence evaluated and financed by FCT since 1993) and in the Physics and Geosciences Departments of the University of Évora. In the resulting 3rd cycle course, advanced knowledge will be provided in three areas of specialization, on the Earth, Atmosphere and Space subsystems and on the observation, monitoring and modeling methodologies of these subsystems, with a strong interdisciplinary potential in emerging domains from Natural Risks and Technological until the development of technologies with a wide application spectrum used in national (ex: LNEG, LNEC, IPMA) and international (ex: ESO, ESA) institutions.
This proposal aims, on the one hand, to offer a more homogeneous advanced training in Earth and Space Sciences perfectly suited to the spirit of Bologna and, on the other hand, to better adapt to the high level of skills of this University in these fields. This advanced training allows you to be an expert, or unique expert consultant in areas such as: natural and technological risks (seismic, extreme meteorological and climatic phenomena, landslides, serious pollution) to support sectors such as spatial planning and urban and industrial planning, archaeological heritage, security and civil protection, among others.

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: 30%
  - Professional Training in the area of the program or related fields: 15%
  - Training in transversal competences: 10%
  - Conference Communications: 15%
  - Participation in research projects: 15%
  - Scientific publications: 15%

11. Maximum number of admissions

- Maximum number of admissions for candidates with nationality of European Union countries: 10
- Maximum number of admissions for candidates without nationality of countries of the European Union: 5

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

15. Learning Type: Presential

16. Schedule type: Mixed

17. Program starting date: September of 2021

January 5, 2021
The Rector

Ana Costa Freitas