



Universidade de Évora

Edital

Applications for Admission to the Ph.D. Program in
Mechatronics Engineering and Energy
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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António Heitor Reis (ahr@uevora.pt)

3. Program description:

The main objective of the PhD program in Engineering is to train highly qualified technicians and researchers, particularly specialized in Mechatronics or in Energy, who are able to carry out independent research or experimental work, in a corporate environment, as well as within the university context. The offer of a third Cycle in Mechatronics Engineering and Energy is the natural sequence of second Cycles, namely those offered by the University of Évora, MSc in Mechatronics Engineering and MSc in Solar Energy Engineering, and it results from the developed research at the University of Évora, particularly in the Research Centers evaluated by the FCT, where the cycle Professors are integrated as researchers, namely the ICT-Institute of Earth Sciences with its connection to the Renewable Energy Chair of the University of Évora and the LAETA-Associated Laboratory for Energy, Transports and Aeronautics.

This PhD program provides advanced specialization areas, with a remarkable interdisciplinary potential in emerging fields, from product design engineering, instrumentation, automatic control and Process supervision, to the development of a range of technologies applied to Mechatronics engineering, energy efficiency in processes, energy capture, conversion and concentration.

4. Specialization areas:

- Energia (**available**)
- Mecatrónica (**available**)

5. Career opportunities:

The offer of a third cycle in Mechatronics Engineering and Energy is presented as a continuation of the related second cycle programs offered by the University of Évora, namely in mechatronics engineering, energy and environment and solar energy engineering, as well as the research carried out at the University of Evora, particularly in the Mechatronics Engineering Center, in connection with the IDMEC / IST and the Renewable Energy Chair at the UEVORA. This PhD program provides advanced training in diverse areas of expertise, with a pronounced interdisciplinary potential in emerging fields - from product design engineering, instrumentation, process control and monitoring, to development of a range of technologies applied to mechatronics engineering, energy efficiency in processes and energy capture, conversion and concentration.

6. Number of registration at DGES:

R/B-CR-269/2008

7. Number of accreditation process by A3ES:

CEF/0910/26231

8. Program Creation Norm:

Diário da República n.º83 de 30 de abril de 2013, Despacho n.º 5672

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

MSc in adequate field, namely MSc in Mechatronics Engineering, Energy and Environment, Solar Energy Engineering, Mechanical Engineering, Electrotechnical Engineering, or a MSc in a related field, or a curriculum vitae that is considered relevant in these areas.

10. Selection Process:

- Academic qualifications: 45%
 - Area of qualifications: 50%

- Weighted average (1st cycle and 2nd cycle ECTS, weighting based on ECTS completed in each cycle): 50%
- Curriculum analysis: 45%
 - Professional Experience in the area of the program or related fields: 50%
 - Scientific publications: 30%
 - Conference Communications: 10%
 - Participation in research projects: 10%
- Interview: 10%
 - Motivation and commitment: 50%
 - Availability: 50%

Observations regarding the selection process:

The existence of the interview is defined by the CEA and its necessity depends on the equivalence of the presented candidates. In case of non-accomplishment of the interview, its weighting will not be considered in the ranking of the candidates.

11. Maximum number of admissions

- Maximum number of admissions for candidates with nationality of European Union countries: 6
- Maximum number of admissions for candidates without nationality of countries of the European Union: 6

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:** 8 semesters
- b. **Number of ECTS to obtain the degree:** 240
- c. **Number of ECTS to obtain the doctorate course (conclusion of the curricular part):**
30

14. Recognition of the course for progression in the teaching career of child educators and teachers in basic and high schools

According to article 54 of the Statute of the Teaching Career and the Ministerial Order no. 344/2008, of April 30th, this Ph.D's degree is recognized by the Ministry of Education for career progression of:

Grupos de recrutamento 510 (Física e Química), 530 (Educação Tecnológica) e 540 (Eletrotécnica) do ensino básico, 3.º ciclo e do ensino secundário.

15. Language (s) of teaching:

- Portuguese
- English

16. Learning Type: Presential

17. Schedule type: Post-labor hours

18. Classes schedule (week days and schedule)

Not Applicable

19. Program starting date: September of 2020

January 29, 2020
The Rector

Ana Costa Freitas