



Job: INTERNATIONAL CALL FOR A PHD HOLDER POSITION TO PURSUE SCIENTIFIC RESEARCH ACTIVITIES PURSUANT TO ARTICLE 23 OF DECREE-LAW NO. 57/2016 OF AUGUST 29th, AMENDED BY LAW 57/2017 AND REGULATORY DECREE No. 11- A / 2017.

Reference: REQUIMTE/EEC2018/05

Main research field: Exact and natural sciences

Sub research field: Chemistry

1. In a meeting held on the 8th of February 2018, the Board of Directors of REQUIMTE – Rede de Química e Tecnologia – Associação, has decided to open an international call for thirty-eight positions of PhD holder Researchers, under a work contract for a non-fixed term. This announcement is intended to 1 (one) research position to pursue scientific research activities in the area Exact and natural sciences, sub-area Chemistry, under a work contract for a non-fixed term, in order to work in the specific area of design, preparation and characterization of new eco-sustainable heterogeneous inorganic based catalysts, including metal/metal complexes and (nano)silicas, aluminosilicates and carbon (nano)materials for esterification, transesterification, hydrolysis, condensation and (enantio)selective oxidation and reduction catalysis, for wastewater and biomass valorization.

2. Applicable Legislation

Decree-Law no. 57/2016 of August 29th, amended by Law 57/2017 and Regulatory Decree No. 11- A / 2017 which approved the doctorate hiring regime destined to stimulate scientific and technological employment for all knowledge areas (RJEC); Portuguese Labour Code, approved by Law 7/2009 of February 12, in its actual form.

3. Pursuant to article 13 of RJEC, the tender selection panel is be formed by: Professora Doutora Ana Cristina Moreira Freire (Faculdade de Ciências, Universidade do Porto acting as chairperson by delegation of President of REQUIMTE); Professor Doutor Manuel Fernando Ribeiro Pereira (Faculdade de Engenharia, Universidade do Porto) and Professor Doutor João Pires da Silva (Departamento de Química e Bioquímica, Faculdade de Ciências da Universidade de Lisboa).

4. The workplace shall be at Faculdade de Ciências da Universidade do Porto.

5. Monthly remuneration to be paid is the one set by article 23 (3) of RJEC, corresponding to level 33 of the Single Salary Table, approved by Order no. 1553-C/2008 of December 31st, i.e. 2.128,34 Euros.

6. Application can be submitted by any national, foreign and stateless candidate(s) holding a doctorate degree in Chemistry and related area and a scientific and professional curriculum whose profile is suited for the activity described below (item 7).

In case the doctorate degree was awarded by a foreign higher education institution, it must comply with the provisions of Decree-Law no. 341/2007 of October 12th, and all formalities established therein must be complied with at the application deadline.

7. The tender admission general requirements are those defined in the previous point 6, and specific requirements are relevant publications record in the field of heterogeneous catalysis; experience in

heterogeneous and homogeneous (enantio)selective catalytic reactions for biofuels, biochemicals and biomaterials production; design, preparation and characterization of homogeneous and heterogeneous catalysts based on metal/metal complexes, (nano)silicas, aluminosilicates and carbon (nano)materials for application in sustainable (enantio)selective catalytic processes for wastewater and biomass valorization.

8. Pursuant to article 5 of RJEC, the selection is to be made based on the evaluation of the scientific and curricular career of the candidate.

9. Scientific and curricular career evaluation focuses on relevance, quality and up-to-datedness:

a) of scientific, technological, cultural or artistic production in the last five years, considered most relevant by the candidate;

b) of research activities, fundamental or applied science, developed in the last five years, considered of higher impact by the candidate;

c) of knowledge extension and dissemination activities developed in the last five years, namely under the scope of the promotion of culture and scientific practices, deemed most relevant by the candidate.

d) of activities of science management, technology and innovation programs, or of experience in observing and monitoring the scientific and technological system or higher education, in Portugal or abroad.

10. The five-year period mentioned above can be extended by the panel, if requested by the candidate, whenever the suspension of scientific activities is reasoned by socially protected grounds like paternity leave, long-term serious illness, and other legal situations of unavailability to work.

11. Evaluation criteria are the following:

The evaluation of the CV of the candidates, in particular the scientific merit and research experience will take into consideration the elements presented for the last five years of activity falling within the scope of the specific areas of the tender (see Point 1) and will be performed according to the following criteria:

11.1 Integrated assessment of the curriculum trajectory of the candidate, based on an overview of their scientific merits, namely:

I. overall scientific coherence of the CV – 20%

II. diversity and quality of scientific indicators, including relevant published peer-reviewed articles and abstracts and communications in national and international conferences, patents and awards in the specific areas of announce (see point 1) -20%

III. participation in research projects, dissemination projects and students supervision - 10%

11.2 Relevant experience, proved in CV, in:

I. Heterogeneous and homogenous (enantio)selective catalytic reactions for the production of biofuels, bioproducts and biomaterials; development, preparation and characterization of homogeneous and heterogeneous catalysts based on metal/metal complexes and (nano)silicas, aluminosilicates and carbon (nano)materials for sustainable catalytic processes for wastewater and biomass valorization– 20%

II. Technology transfer projects in the area of heterogeneous catalysis for sustainable biofuels and biochemicals industrial production; experience in: patent writing; entrepreneurship and technology commercialization programs; and public dissemination in entrepreneurship events. - 15%

III. Analysis and characterization techniques namely electronic microscopy, energy-dispersive X-ray spectroscopy (EDX), surface analysis (XPS), powder X-ray diffraction (XRD) and spectroscopic analysis (FTIR and ²⁹Si and ¹³C NMR) including knowledge in acquisition data software. Expertise in GC-FID / GC-MS and in ¹H, ¹³C and 2D NMR.- 15%

12. The evaluation process includes an interview with the top three candidates. This will be aimed at obtaining clarifications and explanations about the curricular elements and additional information as well as to evaluate the attitude profile and motivation of the candidate.

The final score of each jury member is obtained by the following assessment: 90% scientific and curricular career evaluation and 10% interview.

13. Candidate final classification system shall be given based on a scale 0 to 100.

14. The panel shall deliberate by means of roll-call vote justified under adopted and disclosed selection criteria, with no abstentions allowed.

15. Minutes of panel meetings shall be executed and include a summary of all occurrences of said meeting, as well as of all votes casted by the members and respective reasoning, and shall be provided to candidates whenever required.

16. After selection criteria application, the panel shall prepare a sorted list of approved candidates and respective classification.

17. Panel's final decision shall be validated by the leader of the institution, who is also in charge of deciding about the hiring.

18. Application formalization:

18.1 The applications are formalized by application, available at the electronic address **<http://www.requimte.pt/laqv/concursos-abertos-open-calls>**, addressed to the Director of REQUIMTE, including internal reference, full name, ID card, or Citizen Card, tax identification number, residence and contact address, including email address and telephone.

18.2 Applications shall include all supported documents encompassed by section 6 and 7 for tender admission, namely:

- a) Certificate or diploma copy of the doctoral degree;
- b) Doctoral thesis;
- c) Curriculum vitae, detailed and structured pursuant to sections 9 and 11;
- d) The candidate may present other documentation relevant for the evaluation of qualifications in the specific areas of work.

18.3 Candidates shall submit their application files and supporting documentation, in a digital form, in PDF format, link **<http://www.requimte.pt/laqv/concursos-abertos-open-calls>**, either delivering in person in Praça Coronel Pacheco nº 15-6º andar, during office hours.

18.4. The application period is from 8th May 2018 to 1st June 2018.

19. All candidates who formalize their applications in an improper way or fail to prove the requirements imposed by this tender are excluded from admission. In case of doubt, the panel is entitled to request any candidate to present further documentation supporting their statements.

20. False statements provided by the candidates shall be punished by law.

21. Both admitted and excluded candidate list and final classification list shall be published in the website of the Institute and the selected candidate shall be notified by email.

22. Preliminary Hearing and Final Decision Deadline: After publication, all candidates have 10 working days to respond. Panel's final decisions are pronounced within a period of 90 working days, from response period deadline.

23. This call is open fulfilling the conditions contained in nº1 of article 23 of the Decree-Law No. 57/2016 of 29 August, within a FCT fellowship with reference SFRH/BPD/72126/2010.

24. This tender is exclusively destined to fill this specify position and can be terminated at any time until approval of final candidate list, expiring with the respective occupation of said position.

25. Non-discrimination and equal access policy: REQUIMTE actively promotes a non-discrimination and equal access policy, wherefore no candidate can be privileged, benefited, impaired or deprived of any rights whatsoever, or be exempt of any duties based on their ancestry, age, sex, sexual preference, marital status, family and economic conditions, instruction, origin or social conditions, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic origin or race, origin territory, language, religion, political or ideological convictions and union membership.

26. The panel has approved this announcement in meeting held on 02/05/2018.

27. According to Decree-Law no. 29/2001 of 3 February, disabled candidates shall be preferred in a situation of equal classification, and said preference supersedes any legal preferences. Candidates must declare, on their honour, their respective disability degree, type of disability and communication/expression means to be used during selection period on their application form, under the regulations above.

28. The selection of candidate to be hired is determined by orientations and regulations issued by Fundação para a Ciência e Tecnologia upon verification of all legal requirements. REQUIMTE is entitled to annihilate the present process in case the legal requirements are not fulfilled.

29. The hiring process of the selected candidate to the present position is determined by the celebration of contract between FCT and REQUIMTE, according to n.º 4 do art.º 23 do DL 57/2016. The needed funding to perform the contract with the selected candidate must be provided through the contract celebrated with FCT pursuant to article 17th of Decree-law nº 57/2016 of 29th August, amended by laws 57/2017 and regulatory decree No. 11- A / 2017.