



Reference: REQUIMTE 2021-28

Scientific field: Computational Biochemistry

Sub scientific area: Enzymology and Proteomics

1. In a meeting the Board of Directors of REQUIMTE – Rede de Química e Tecnologia – Associação, has decided to open an international call for a PhD holder Researcher, under a work contract for a non-fixed term. This announcement is intended to 1 (one) research position (**Reference REQUIMTE 2021-27**), to pursue scientific research activities in the area Computational Biochemistry, sub-area Enzymology and Proteomics, under a work contract for a non-fixed term, at Laboratório Associado para a Química Verde - Tecnologias e Processos Limpos - UIDB/QUI/50006/2020, with the financial support of the FCT/ MCTES through national funds, to pursue scientific research activities in order to perform molecular dynamics simulations, quantum mechanics calculations and quantum/classical hybrid calculations on catalytic/inhibition mechanisms of complex enzymes and megaenzymes.

2. Applicable legislation:

Decree Law No. 57/2016, of 29 August, amended by Law 57/2017 and Regulatory Decree No. 11-A/2017, which approves a scheme for hiring PhD holders, aimed at stimulating scientific and technological employment in all areas of knowledge (Legal Regime of Scientific Employment - RJEC); Labor Code, approved by Law No. 7/2009, of 12 February, as amended.

3. In accordance with article 13 of RJEC, the competition jury has the following composition: Prof. Maria João Ramos (Professora Catedrática da Faculdade de Ciências da Universidade do Porto, acting as chairperson by delegation of President of REQUIMTE); Prof. Pedro Alexandrino Fernandes (Professor Associado at Faculdade de Ciências, Universidade do Porto) and Prof. Alexandre Magalhães (Professor Auxiliar at Faculdade de Ciências, Universidade do Porto).

4. The place of work is at the Faculty of Sciences of the University of Porto.

5. The monthly remuneration to be awarded will be in accordance with that provided for in article 23(3) of RJEC, in the scope of the regulations of Regulatory Decree no. 11-A/2017, corresponding to level 33 of the single salary scale (TRU), approved by Ministerial Order no. 1553-C/2008, December 31, being 2.134,73 Euros.

6. National, foreign and stateless candidates may apply to the competition if they hold a PhD degree in Chemistry, Biochemistry, or a related scientific area and have a scientific and professional curriculum vitae that reveals a profile that is appropriate for the activity to be developed. If the doctoral degree has been conferred by a foreign higher education institution, it must comply with the provisions of Decree Law 341/2007, of October 12, and all formalities established therein must be complied with at the signature of work contract.

7. The general requirements for admission to the competition are those defined in the previous point and special requirements are to have technical experience in molecular mechanics, molecular dynamics, hybrid quantum mechanics/molecular mechanics calculations, and some scientific experience in the fields of catalytic/inhibition mechanisms of complex enzymes and megaenzymes.

8. In accordance with article 5 of RJEC, selection will be made by evaluating the scientific and curricular background of the candidates.

9. The evaluation of the scientific and curricular background focuses on relevance, quality and timeliness:

- a) Scientific, technological, cultural or artistic production in the last five years considered most relevant by the candidate;
- b) The applied or practice-based research activities carried out in the last five years and considered to have the greatest impact by the candidate;
- c) Extension and knowledge dissemination activities carried out in the last five years, namely in the context of promoting scientific culture and practices, considered to be of greatest relevance by the applicant;
- d) The management activities of science, technology and innovation programs, or the experience in the observation and monitoring of the scientific and technological system or of higher education, in Portugal or abroad.

10. The five-year period referred to in the previous number may be extended by the jury, at the candidate's request, when justified by suspension of scientific activity for socially protected reasons, namely for reasons of parental leave, serious and prolonged illness, and other situations of unavailability for work that are legally protected.

11. Evaluation criteria:

In assessing the candidates' CV, in particular scientific experience and scientific merit, the elements presented for the last five years of activity covered by the specific areas of the competition (see point 1) will be valued according to the following criteria:

11.1 Integrated evaluation of the candidate's curriculum trajectory, based on an overview of his/her scientific merit:

I. Overall scientific coherence of the CV - 15%.

II. Diversity and quality of scientific indicators in the specific areas of the announcement (see point 1) - 20%

III. Participation in research projects and student supervision - 15%

11.2 Relevant experience in:

I. Technical experience in molecular mechanics, molecular dynamics, and hybrid quantum mechanics/molecular mechanics calculations - 35%.

II. Scientific experience in the fields of catalytic/inhibition mechanisms of complex enzymes and megaenzymes. 15%

12. If there are candidates with a mark whose difference is less than or equal to 15% of the mark obtained by the best candidate, the jury will interview candidates in this situation. The purpose of the interview is to clarify aspects related to the results of the previous research.

The final classification to be indicated by each jury member is composed of 90% based on the curricular and scientific track evaluation and 10% based on the interview.

13. The final classification system of the candidates is expressed on a scale of 0 to 100.

14. The jury will deliberate by means of a reasoned roll-call vote according to the selection criteria adopted and disclosed; abstentions are not allowed.

15. Minutes are taken of the jury meetings, containing a summary of what occurred, as well as the votes cast by each member and respective reasoning, and will be made available to the candidates whenever requested.

16. After concluding the application of the selection criteria, the jury will prepare the ordered list of approved candidates with the respective classification.

17. The jury's final deliberation is homologated by the institution's top manager who is also responsible for deciding about hiring.

18. Application formalization:

18.1 The applications are formalized at the electronic address <https://www.requimte.com/> with following documents in a digital form, in PDF format:

- i) Curriculum vitae;
- ii) Motivational Letter;
- iii) Qualifications Certificate;
- iv) other relevant documentation.

18.2. The application period is from 27/07/2021 to 09/08/2021.

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 at the address of REQUIMTE (Praça Coronel Pacheco nº 15-6º andar, Porto), 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 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.

24. 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.

25. The panel has approved this announcement in a meeting held on 20/07/2021.

26. 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.

27. 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.