



Reference: REQUIMTE 2021-32

Main research field: Medical and Health Sciences

Sub research field: Health Sciences

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 2021-32**), to pursue scientific research activities in the area Medical and Health Sciences, sub-area Health Sciences, under a work contract for a non-fixed term, at Unidade de Ciências Biomoleculares Aplicadas - UIDP/QUI/04378/2020, with the financial support of the FCT/ MCTES through national funds. The researcher will perform the investigation in the field of Bacteriology, with special focus on the characterization and relevance of the urogenital microbiome in the prevention and involvement of human urinary tract disease, using a multi-omic approach. Experience in bacterial characterization and typing supported by different methodologies will be considered (whole genome sequencing, FT-IR spectroscopy, MALDI-TOF MS, phylogenetic analysis, Multilocus Sequence Analysis-MLSA), as well as experience in the use of bioinformatics platforms, tools and software [e.g. : Type (Strain) Genome Serve(TYGS), PATRIC, SPAdes, Prokka, RAST], determination of antimicrobial susceptibility, and in the study of mechanisms and genetic structures supporting antimicrobial resistance.

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: Luísa Maria Sobreira Vieira Peixe (Associate Professor with Habilitation, Faculdade de Farmácia, Universidade do Porto, Presidente), Gabriela Conceição Duarte Jorge Silva (Associate Professor with Habilitation, Faculdade de Farmácia, Universidade de Coimbra) e Carla Alexandra Novais de Oliveira e Silva (Assistant Professor, Faculdade de Farmácia, Universidade do Porto).

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

5. The gross monthly salary entitle is stipulated in clause 1 a) of article 15 of the Regulatory Decree No. 57/2016, of August 29th, amended by the law nº 57/2017 of July 29th, corresponding to level 33 of the Consolidated Table of Allowances, as approved by Government Order No. 1553-C/2008, of December 31st, being 2.134,73 Euros.

6. Application can be submitted by any national, foreign and stateless candidate(s) holding a doctorate degree in Pharmaceutical Sciences, Microbiology, Biology or related areas, 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 Decreto-Lei n.º 66/2018, de 16 de Agosto, and all formalities established therein must be complied with at the signature of work contract.

7. The tender admission general requirements are those defined in the previous point 6, and specific requirements include post-doctoral experience in elucidating the characteristics of bacteria (from the microbiota or human pathogenic) that allow their differentiation (including at the infra-species level) and evolution. Experience in DNA-based molecular methodologies (e.g., PCR, MLST, MLSA, WGS) or other cellular macromolecules (e.g., FT-IR spectroscopy), phylogenetic analyzes, and antimicrobial resistance methodologies to support the epidemiology of resistant bacteria are also required.

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 or technological production, considered most relevant by the candidate;

b) of research activities, fundamental or applied science, considered of higher impact by the candidate;

c) of knowledge extension and dissemination activities, 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. Evaluation criteria are the following:

10.1 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 – 10%

II. diversity and quality of scientific indicators, including relevant published peer-reviewed articles, in the specific areas of microbiology, systematics, antimicrobial resistance and bacterial molecular epidemiology or demonstrating relevant technical expertise - 30%

III. contribution to research projects in the area of iron bioinorganic chemistry - 10%

10.2 Relevant experience, proved in CV, in:

I. Phylogenetic and genomic analyzes for the identification and characterization of bacteria. – 15%

II. Experience in the use of infrared spectroscopy and chemometric methods for multivariate data analysis. – 10%

III. Solid knowledge and practical experience in bacterial culture methodologies and assessment of antimicrobial resistance phenotypes, as well as in the use of bioinformatics platforms for research and analysis of data sets. – 15%

IV. Student orientation. – 10%

11. In the case of admitted candidates whose evaluation does not differ more than 10% from that obtained by the best positioned candidate, the jury will interview these 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.

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

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

14. 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.

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

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

17. Application formalization:

17.1 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.

17.2. The application period is from **06/08/2021 to 19/08/2021**.

18. 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.

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

20. 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.

21. 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.

22. 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.

23. 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.

24. The panel has approved this announcement in a meeting held on 02/08/2021.

25. 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.

26. 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.