



Reference: REQUIMTE 2022-31

Main research field: Exact and Natural Sciences

Sub research field: Biochemistry

1. 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 one (1) research position, equivalent of Auxiliary Researcher (**Reference REQUIMTE 2022-31**), to pursue scientific research activities in the area of Exact and Natural Sciences, sub-area Biochemistry, under a work contract for a non-fixed term, under the contract program of Procedimento Concursal de Apoio Institucional with reference CEECINST/00136/2021, with the financial support of the FCT/MCTES through national funds, in order to pursue research activities in Biochemistry applied to the bioactivity of natural products, aiming the development of innovative formulations for application in medicine and functional foods.

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 has the following composition: Maria de La Salette de Freitas Fernandes Hipólito Reis Dias Rodrigues (Full Professor, Faculdade de Farmácia, Universidade do Porto, President by delegation of the Director of REQUIMTE); Francisco José Baptista de Veiga (Full Professor, Faculdade de Farmácia, Universidade de Coimbra), Member and João Luís Machado dos Santos (Associate Professor, Faculdade de Farmácia, Universidade do Porto), Member.

4. The workplace shall be at Universidade do Porto.

5. The gross monthly salary entitle is € **3.230,31**, corresponding to 195 index of the Scientific Research Career (Annex I of Decree-Law no. 124/99, from 20th April).

6. Application can be submitted by any national, foreign, and stateless candidate(s) holding a doctorate degree in Biochemistry, Pharmaceutical Sciences or in a related scientific area. In case the doctorate degree was awarded by a foreign higher education institution, it must

comply with the provisions of Decree-Law no. 66/2018, from 16th August, 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, and specific requirements are publications in the areas of extraction and characterization of bioactive compounds from natural matrices; preparation and characterization of nanomaterials and nanoformulations for biological and biomedical applications; biomedical research with animal models of neurodegenerative and/or metabolic diseases; mitochondrial bioenergetics; lipidomics.

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 the scientific and technological achievements considered most relevant by the candidate, and that includes the last five years of activity;

b) of the research activities in fundamental and applied science, including coordination and participation in research projects, considered most relevant by the candidate and that includes the last five years of activity;

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 and that includes the last five years of activity;

d) of the experience in training and qualification of Human Resources, including the supervision of M.Sc. and Ph.D. students and researchers integrated in projects or in post-doctoral training, as well as participation in juries of academic degree examinations and in evaluation committees for the selection of projects or researchers in competitive calls.

10. Evaluation criteria are the following:

In evaluating the candidates' CVs, in particular the scientific experience and scientific merit, the elements covered by the specific areas of the tender will be valued (see point 1), according to the following criteria:

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 and the impact of the achievements on the scientific field and on society. –10%;

II. Scientific production, measured by the number and quality of the peer-reviewed scientific publications, with valuation of those that demonstrate the autonomy and scientific leadership of the candidate. –30%;

III. Coordination and participation in scientific projects with competitive funding, as well as in other applied research activities considered relevant by the candidate. –10%.

IV. Knowledge extension and dissemination activities, measured by the organization and participation of scientific meetings, by the reviewing and editorial activities, as well as by the organization and participation of other events promoting culture, science, and science-based entrepreneurship. –5%

V. Experience in advanced training and qualification of Human Resources, measured by the teaching experience in Higher Education institutions and in advanced/Continuing Education

courses, by the supervisions of M.Sc. and Ph.D. students and researchers integrated in projects or pos-doctoral training, as well as by participation in jury of academic degree and in evaluation committees for the selection of projects or researchers in complete calls. –10%.

10.2 Relevant experience, proved in CV, in:

I. Extraction processes of bioactive compounds from natural matrices, techniques for chemical characterization of complex extracts, including HPLC-DAD, LC-ESI/MSⁿ, and GC-MS, and *in vitro* assays for evaluating their bioactivity. –10%

II. Preparation and characterization of natural products-based nanoformulations to deliver active principles for specific cellular targets and/or with controlled release. –10%

III. Biomedical research with animal models of neurodegenerative and metabolic diseases. –5%;

IV. Mitochondrial bioenergetics and lipidomics. –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 the best positioned candidate and the candidates in this situation. 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:

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) Motivation letter, in which the candidate must explain future research objectives based on previous experience;

iii) Qualifications certificate;

iv) Other relevant documentation.

17.2. The application period is from **08/06/2022 a 01/07/2022.**

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 specific position and can be terminated at any time until approval of the 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 01/06/2022.

25. According to Decree-Law no. 29/2001 of 3rd February, disabled candidates shall be preferred in a situation of equal classification, and said preference supersedes any legal preferences. Candidates must declare, on their honor, 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.