

Professor Pedro Nuno Simões Rodrigues, Associate Professor of the Instituto de Ciências Biomédicas Abel Salazar da Universidade do Porto, Vice-Rector of the University:

Following my Order dated 27th September 2018, and exercising the powers delegated by order published in the Official Gazette, 2nd Series, no. 157, of 16th August 2018, we are currently inviting applications based on qualifications for one position of Associate Professor in the Disciplinary Area of Chemistry, sub-area of Physical Chemistry of Colloidal Systems, of the Faculty of Sciences of this University. The application procedure will remain in force for a period of fifty business days starting on the day immediately following the publication of this Notice in the Official Gazette. The application procedure will remain in force for a period of fifty business days as from the date immediately following the publication of this Notice in the Official Gazette.

1 – The applicable legal provisions are as follows:

Articles 37 to 51 and 62-A, of the University Teaching Career Statute (ECDU), republished in Decree-Law no. 205/2009, of 31 August, and amended by Law no. 8/2010, of 13 May; Regulation on Competition for the Recruitment of Full, Associate and Assistant Professor of the University of Porto – Order no 12913/2010, published in the Official Gazette, no. 154, of 10 August 2010.

2 – Eligible candidates: Holders of a PhD degree for more than five years.

If a foreign higher education institution conferred the PhD degree, it must be recognized by a higher education institution in Portugal under the Article no. 4 of Decree-Law no. 341/2007, published in the Official Gazette, 1st Series, no. 197, of 12 October 2007. This formality must be met by the last day to submit the application.

Candidates of foreign nationality, except those of the Official Portuguese Speaking Countries, must have command of spoken and written Portuguese at the reference level B1 or higher. This requirement is officially recognized through a certificate or diploma of communicative competence in the Portuguese language of the Common European Framework of Reference for Languages of the Council of Europe. Such recognition must have been obtained by the date of signing the contract.

3 – The application process for the competition must be submitted in the University of Porto, located at Praça Gomes Teixeira, 4099 -002 Porto, Room 114, or submitted via traditional mail to the same address, until the fiftieth business day after the present publication and requires:

3.1 – Application letter in which applicants are expected to provide the following information:

a) Full name;

- b) Parents name;
- c) Number of identity card;
- d) Date and place of birth;
- e) Civil Status;
- f) Profession;
- g) Home address or contact address;
- h) Telephone or mobile phone number;
- i) Email address;
- i) Profession.

3.2 – Documents attesting compliance with the terms laid out in no.2 of the previous paragraph, namely:

- a) the PhD certificate, except for the cases corresponding to the attainment of a PhD degree in the University of Porto;
- b) Certificate or diploma of communicative competence in Portuguese of the Common European Framework of Reference for Languages of the Council of Europe in the case of candidates of foreign nationality, other than those of the Portuguese Official Expression Countries.

3.3 – Copies, in duplicate and in digital format (2 CDs or 2 DVDs), of the following documents:

- a) Curriculum Vitae with the relevant information on which the application is based, taking into account the selection and classification criteria laid down in no. 6 of this notice, organized according to the order of these aspects and criteria, including information on scientific publications in the SCI and / or SCOPUS databases, namely information on journal quartile ranking, journal impact factor and citation indicators (excluding self-citations). The candidate should structure the curriculum in order to facilitate the rapid and complete identification of his / her contribution in the specific fields of the disciplinary area in which the competition is open in each of the sub-paragraphs of section 6.3.
- b) Works mentioned in the submitted curriculum vitae, in which applicants should highlight until ten works that best represent the activity carried out and its relevance at the specific domains of the disciplinary area in which the contest is opened.
- c) Scientific-pedagogical project, describing the personal plan of contributions for the development of the subarea in the research, teaching and other relevant strands, in the context of

the recruiting institution, the state of the art and the previous activity of the candidate. This document will have a maximum of 8 A4 pages, with a minimum text size of 11pt.

4 – The instructions for the presentation of the information, in digital format, are available in the Personnel Competitions area of SIGARRA U.PORTO at:

https://sigarra.up.pt/up/pt/WEB_BASE.GERA_PAGINA?p_pagina=1004282.

5 – The Rectory, through the Human Resources Service of the Common Resources and Services Centre of the University of Porto, will inform the applicants whether the application has been admitted or excluded, based on the applicants' compliance or failure to comply with the criteria laid out in no. 2 of this Notice.

6 – Criteria for selection and ranking of candidates

The evaluation criteria, respective weighting, final assessment system and ranking are based on the general functions of teachers, required for in article 4 of Decree-Law no. 205/2009, of 31 August (ECDU), as well as the requirements of article 50 of the same decree-law and the requirements of paragraph 1 of article 14 of the Regulations for the Competitions for Recruitment of Full Professors, Associates and Assistant Professors of the University of Porto.

In the aspects and respective parameters of curricular evaluation, identified in section 6.3., the candidate should highlight the contributions in the subarea of Analytical Chemistry and Electrochemistry. The work developed over the last 10 years will be particularly valued, attesting to the commitment to pursue a scientific and pedagogical career and to the scientific community.

6.1 – Criteria for approval on absolute merit

The Jury will deliberate on the approval or rejection on absolute merit by a justified nominal vote where no abstentions are admitted. The candidate is considered approved on absolute merit when obtaining a favourable vote of more than half of the jury members voting.

The vote against approval on absolute merit must be based on failure to comply with one or more of the following circumstances:

- a) Hold a degree of Doctor in the area of Chemistry;
- b) The most representative works (listed in point 3.3 (b)) showing the capacity required for the proper exercise of Associate Professor duties in the disciplinary sub-area of the competition;
- c) Have successfully completed the (co) supervision of at least 3 PhD students;
- d) Have an H-index equal to or greater than 25 (without self-citations) as measured by Scopus Elsevier B. V .;

- e) The Scientific-Pedagogical Project (point c of point 3.3) does not present serious deficiencies or inaccuracies that show lack of the necessary capacity for the adequate exercise of the functions of Associate Professor in the disciplinary subarea of the contest, or lack of support in previous work of the candidate;
- f) To have been Principle Investigator of at least one scientific project from competitive funding sources.

6.2 – Ranking of candidates selected on absolute merit

The applicants approved on absolute merit will be ranked based on the methodology of curricular evaluation and on the jury's methodology described in 6.3. and 6.4.

6.3 – Aspects and parameters of evaluation and ranking in relative merit, respective weighting and final valuation system

The present competition is intended to assess the capacity and performance of candidates in the various aspects that, according to Article 4 of the ECDU, integrate all the functions to be performed, if the candidate is to be contracted. Under article 4 of the ECDU, it is generally the responsibility of university teachers to:

- a) Carry out activities of scientific investigation, of cultural creation or of technological development;
- b) Deliver the teaching service distributed to them and to guide and supervise students;
- c) Participate in tasks of university extension, scientific dissemination and economic and social knowledge valorisation;
- d) Participate in the management of the respective university institutions;
- e) Participate in other tasks distributed by the competent management bodies and included in the scope of university teaching activities.

The selection method to be used is that of curricular evaluation. Bearing in mind the general functions assigned to university professors by article 4 of the ECDU, this evaluation focuses on the following aspects:

- a) Pedagogical Experience and Merit;
- b) Scientific merit;
- c) University Extension, Scientific Dissemination and Economic and Social Knowledge Valorisation, which will be designated in this contest by Knowledge Transfer;
- d) University Management;

e) Scientific-Pedagogical Project.

The parameters to be taken into account in the curriculum evaluation of the candidates in each one of the aspects listed, and the weighting to be assigned to each of them in the final classification, are those that are discriminated below, with particular relevance to the academic contributions in the last 10 (ten) years:

a) Pedagogical Experience and Merit (30%):

- i) Pedagogical content: a parameter that takes into account the publications, computer applications and experimental prototypes of a pedagogical scope that the candidate has carried out or has participated in, taking into account their nature and their impact on the national and international community.
- ii) Teaching activity: a parameter that takes into account the curricular units that the candidate has coordinated and taught, taking into account diversity, pedagogical practice, quality as measured by the results of pedagogical surveys and the universe of students.
- (iii) Innovation: a parameter which takes into account the candidate's ability to promote new pedagogical initiatives, such as: the presentation of well-founded and coherent proposals for the creation of new curricular units or a deep reformulation of existing ones; the creation or reinforcement of experimental and / or computational laboratory infrastructures in support of teaching; the creation or restructuring of curricular unit groups or curricula; and the improvement of pedagogical practice.
- iv) Student supervision and guidance: a parameter that takes into account the orientation of PhD students, master's and undergraduate students, or in the context of fellowships for research initiation, taking into account the number, quality, scope and the scientific / technological impact of the resulting publications, theses, dissertations and final course papers, distinguishing especially the awarded works and the international recognition.

b) Scientific merit (50%):

- (i) Scientific publications: a parameter which takes into account books, chapters of books, articles in scientific journals and in international conference proceedings of which the applicant was the author or co-author, considering: their nature; the impact factor and quartile in the case of journals; the number of citations measured by Scopus Elsevier; the technological level; innovation; diversity; the multidisciplinary; international collaboration; the importance of contributions to the advancement of the current state of knowledge.

Consideration should also be given to the importance of the works selected by the candidate as being more representative, in particular as regards their contribution to the development and evolution of the subarea for which the competition is open.

- ii) Coordination and participation in scientific projects: parameter that takes into account the participation and coordination of scientific projects by the candidate, subject to competitive funding, considering: the territorial scope; the dimension; the technological level; the importance of contributions; innovation and diversity.
- iii) Creation and strengthening of laboratory resources: a parameter that takes into account the participation and coordination of initiatives by the candidate that have resulted in the creation or reinforcement of laboratory infrastructure of an experimental and / or computational nature in support of research.
- iv) Dynamization of scientific activity: parameter that takes into account the capacity of coordination and leadership of research teams demonstrated by the candidate.
- v) Recognition by the international scientific community: parameter that takes into account: prizes of scientific societies; editorial activities in scientific journals; participation in editorial bodies of scientific journals; coordination and participation in program committees of scientific events; conducting invited lectures in scientific meetings or in other universities and participation as a member of scientific societies of competitive admission and other similar distinctions.

c) Knowledge Transfer (5%):

- i) Industrial property: a parameter that takes into account the authorship and co-authorship of patents, models and industrial designs, taking into account their nature, territorial scope, technological level and results obtained.
- ii) Legislation and technical standards: a parameter that takes into account the participation in drafting legislative and standards projects taking into account their nature, territorial scope and technological level.
- iii) Publications of scientific and technological dissemination: parameter that takes into account the articles in magazines, conferences and other publications of scientific and technological diffusion, taking into account their professional and social impact.
- iv) Provision of services and consultancy: a parameter that takes into account participation in activities involving the business community and the public sector, taking into account the type of participation, size, diversity, technological intensity and innovation.

- v) Services to the scientific community and society: a parameter that takes into account the participation and coordination of scientific and technological dissemination initiatives and taking into account the nature and results achieved by them, when carried out for: the scientific community, namely by organizing congresses and conferences; the media; companies and the public sector.
- vii) Vocational training actions: a parameter that takes into account the participation and coordination of technological training actions directed at companies and the public sector, taking into account their nature, technological intensity and results achieved.

d) University Management (5%):

- i) Management positions in the University and the Faculty: parameter that takes into account the nature and the responsibility of the position.
- ii) Unit assignments and course coordination: a parameter that takes into account the position, the universe of performance and the results obtained by the candidate in the exercise of management functions in departments and research units, of course coordination, scientific areas or sections.
- iii) Temporary assignments and assignments: a parameter that takes into account the nature, scope and results obtained by the candidate when he participated in editorial activities of international journals, evaluation in scientific programs, academic examination boards, competition juries and in temporary positions and tasks that have been assigned by the competent management bodies, among others.
- iv) Other positions: parameter that takes into account the exercise of positions referred to in Article 73 of the Statute of the University Teaching Career (ECDU) and positions in national and international scientific organizations.

e) Scientific-Pedagogical Project (10%): with this project the candidate should highlight the candidate contribution to the scientific and pedagogical development of the subarea to which the candidate is applying in the contest, briefly describing the research and teaching activities. It will be evaluated taking into account the following parameters: potential contribution to the scientific and pedagogical development of the subarea and courses of the Department; previous job of the relevant candidate in the area.

The Curriculum Vitae's preferred parameters for suitability to the disciplinary sub-area of the competition will focus on the scientific production of the candidate in the last 10 (ten) years and

the contribution to the development and evolution of the disciplinary subarea in which the contest is opened.

6.4 – Working Methodology of the jury

Each jury member evaluates each candidate by scoring each candidate on a scale of 0 to 100 points, taking into account the criteria approved for each aspect. The final result of the evaluation of each candidate by each member of the jury is calculated through the sum of the classifications in each curricular section considering the respective weighting.

As a result of its evaluation exercise, each member of the jury builds an ordered list of candidates' evaluation, with which they participate in the votes that lead to the approval decision of the candidates in absolute merit, as described in section 6.1, and to the final ordering of the candidates in accordance with paragraph 6.4.1 below.

6.4.1 – Jury Deliberations

Any deliberation results of no. 12, article 17 of the Regulation on Competitions for the Recruitment of Full, Associate and Assistant Professor of the University of Porto (Order no. 12913/2010, published in the Official Gazette, no. 154, of 10 August 2010), applicable under Article 83-A of the ECDU, which determined the adoption of that Order to implement the provisions of that statute, including the procedural conduct of competitions, namely the system of evaluation and final ranking. Thus, under no.12 of Article 17 of that Regulation, the jury will decide, by nominal voting based on the adopted and disclosed selection criteria, on the approval and ranking of the candidates. An absolute majority is required for any resolution, that is, a number of votes at least equal to half plus one of the votes of the present members, and abstentions are not allowed.

In their first meeting, the Jury should decide how to obtain an absolute majority for the final sorting, under the combined application of Articles: 2, paragraph 4,3, paragraph i) final part; and 14 of the Regulation on Competition for the Recruitment of Full, Associate and Assistant Professors of the University of Porto (Order no. 12913/2010, published in the Official Gazette, no.154, of 10 August 2010; 50th, paragraph 5 of ECDU and 34, paragraph 1 of the Administrative Procedure, approved by Decree-Law No. 4/2015, of January 7.

7 – The jury has the following composition:

President:

Members:

- Professor Pedro de Oliveira, Full Professor, Université de Paris-Sud, France,
- Professor Hubert Girault, Full Professor, École Polytechnique Fédérale de Lausanne, Switzerland,
- Professor Christopher Michael Ashton Brett, Full Professor, Departamento de Química, Faculdade de Ciências e Tecnologia, Universidade de Coimbra,
- Professor Armando da Costa Duarte, Full Professor, Departamento de Química, Universidade de Aveiro,
- Professor Michael John Smith, Full Professor, Escola de Ciências, Departamento de Química, Universidade do Minho,
- Professor António Fernando Sousa da Silva, Full Professor, Departamento de Química e Bioquímica da Faculdade de Ciências da Universidade do Porto;
- Professor Maria João Ribeiro Nunes Ramos, Full Professor, Departamento de Química e Bioquímica da Faculdade de Ciências da Universidade do Porto;
- Professor Victor Armando Pereira de Freitas, Full Professor, Departamento de Química e Bioquímica da Faculdade de Ciências da Universidade do Porto;
- Professor Ana Cristina Moreira Freire, Full Professor, Departamento de Química e Bioquímica da Faculdade de Ciências da Universidade do Porto;