

**Public notice Ref.ª CDL-CTTRI-135-SGRH/2023** - Prof. Doutor Paulo Jorge dos Santos Gonçalves Ferreira, Full Professor and Rector of the University of Aveiro, hereby makes it known that, for a period of 10 working days from the working day following that on which this announcement is published, an international call for applications is open, for the recruitment in the form of an open ended contract under the scope of the Labor Code, of 1 (one) position of Doctoral Researcher at the initial level to carry out scientific research activities in the scientific area of Biology, Chemistry, Biochemistry, Materials Science and Engineering, or related areas, in order to (i) development and implementation of methodologies for the biosynthesis of metallic nanoparticles using natural extracts and synthesis of polymeric nanoparticles (e. g., chitosan) as well as their characterization through different techniques (e.g., UV-Vis spectroscopy, SEM, TEM, EDS, AFM, FTIR, XRD, ICP-MS, DLS, Nanoindentation), ii) testing of the effectiveness of the (nano)particles obtained in i) on virulent strains of pathogenic bacteria in aquaculture systems (testing on bacterial biofilms and expression of virulence genes), within the scope of the ENIGMA project - Eco-friendly Nanotechnology in fish health manaGement for sustainable aquaculture developMent in Africa, with the FCT reference AGA-KHAN/541749315/2019, supported by the budgets of the Aga Khan Development Network and the Foundation for Science and Technology, in its State Budget component.

This call for applications was authorized by order dated 11 May 2023, issued by the Rector of the University of Aveiro, based on a proposal from the Scientific Council.

The competition is governed by the provisions contained in Decree-Law No. 57/2016, of 29 August, which approves a scheme for hiring PhD holders aimed at stimulating scientific and technological employment in all areas of knowledge (RJEC), by the Labor Code, approved by Law No. 7/2009, of 12 February, in its current wording and by all other applicable legislation and regulatory standards.

The monthly remuneration to be awarded corresponds to the basic remuneration of 2228,11€.

#### 1 - Admission requirements:

National, foreign, and stateless candidates may apply to the competition if they hold a PhD degree in Biology, Chemistry, Biochemistry, or Materials Science and Engineering (or related scientific area) and have a scientific and professional curriculum vitae that reveals a profile appropriate to the activity to be developed.

Applicants holding qualifications obtained abroad must prove the recognition, equivalence, or registration of the PhD degree, under the terms of the applicable legislation. This formality must be fulfilled until the date of the signing of the contract.

#### 2 - Formalizing the applications:

Applications shall be presented by means of a request addressed to the Rector of the University of Aveiro, under the following terms and conditions:

##### 2.1 - The application should contain, among others, the following elements:

a) Identification of the competition;

- b) Identification of the candidate by full name, date of birth, nationality and postal and electronic address;
- c) Indication of the category and the institution where he/she works, when applicable;
- d) Indication of the degrees held by the candidate;
- e) A statement that the candidate declares that the elements or facts contained in the application are true.

2.2 - The application is accompanied by the following documentation

- a) Copy of the detailed curriculum vitae structured in accordance with the items of point 5;
- b) Other relevant documents for the evaluation of the qualification in a related scientific area;
- c) Any other documents the candidate considers relevant, namely for assessing the information referred to in article 5, number 2 of RJEC.

2.3 - The curriculum vitae should contain

- a) Complete identification;
- b) Contact form, address, telephone and e-mail address;
- c) Copy of the qualification certificates with the respective classification or other document legally recognized for that purpose;
- d) All relevant information for the evaluation of the application taking into account the selection criteria set out in this announcement.

2.4 - Form of presentation of the application:

2.4.1 - The application form, which may be submitted in Portuguese or English, should be submitted electronically to the address of the Human Resources Department of the University of Aveiro ([sgrh-concursosdl57-2016@ua.pt](mailto:sgrh-concursosdl57-2016@ua.pt)) by the deadline specified in this announcement.

2.4.2 - When submitting the application electronically, it is mandatory that a message is issued proving its electronic validation.

2.4.3 - The instructions for submitting the application, in digital format, are available in the Competitions and Job Vacancies area of Human Resources, at <https://www.ua.pt/pt/sgrh/pessoal-investigador-novos-concursos-e-ofertas>.

2.5 - The non-respect of the established deadline for submission of the application, as well as the incorrect formalization of the application, will result in the exclusion of the application. The exclusion decision will be communicated to the candidates by e-mail, for the purposes of the hearing of the interested parties.

3 - Selection board:

3.1 - In accordance with article 13 of RJEC, the competition jury has the following composition

President: Doctor Bruno André Fernandes de Jesus da Silva Nunes, Senior Researcher of the University of Aveiro.

Members:

Prof. Dr. Susana Patrícia Mendes Loureiro, Assistant Professor with Habilitation of the University of Aveiro

Prof. Dr. Isabel Maria Cunha Antunes Lopes, Senior Researcher of the University of Aveiro.

Substitute Members:

Prof. Dr. Rosa de Fátima Lopes de Freitas, Assistant Professor with Habilitation of the University of Aveiro



Prof. Dr. Fernando Manuel Raposo Morgado, Associate Professor with Habilitation of the University of Aveiro

#### 4 - Operational Rules of the Jury

4.1 - Deliberations are taken by reasoned roll-call vote, by an absolute majority of the votes of the jury members present at the meeting; abstentions are not allowed.

4.2 - The jury shall decide on approval in absolute merit, based on the merit of the candidates' overall CV in the competition's scientific area, and also taking into account, cumulatively, the fulfilment of at least one of the following requirements

4.2.1 - Being the author or co-author of at least 10 articles in the scientific area for which the competition is open, indexed in the Science Citation Index Expanded of the Web of Science by Clarivate Analytics as document type = article or document type = review or in SCI Verse of SCOPUS with the same characteristics,

or

4.2.2 - Have obtained a total of at least 40 citations in the Science Citation Index Expanded of the Web of Science from Clarivate Analytics or in the SCI Verse of SCOPUS, related to scientific work produced in the area for which the call is open.

4.3 - The decision of exclusion in absolute merit will be notified to the candidates by email for the purposes of the hearing of interested parties.

4.4 - Once the phase of approval in absolute merit is over, the jury will begin the assessment of the applications, taking into account the criteria of this announcement.

#### 5 - Evaluation and selection

5.1 - The selection method is curricular assessment.

5.2 - 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) The extension and knowledge dissemination activities carried out in the last five years, namely in the context of promoting culture and scientific practices, considered to be of greatest relevance by the applicant;

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

5.3 - 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, prolonged serious illness, and other situations of unavailability for work that are legally protected.

6 - Curricular Evaluation. This component of the evaluation is expressed on a 0 to 20 numerical scale, taking into account the following criteria

6.1 - Curriculum evaluation criteria are

6.1.1: Criteria for the evaluation of Scientific Performance of the last five years considered most relevant by the candidate (16 points);

- Scientific production. Quality and quantity of scientific production in the area for which the competition is open (books, articles in journals, communications in congresses) expressed by the number and type of publications, and by the recognition given to it by the scientific community (translated by the quality of the places of publication and the references made to it by other authors); candidates should list the publications produced, referring to their number of citations, impact factor of each journal, and relative position in the area of indexing and DOI.

- Coordination and implementation of scientific projects. Quality and quantity of scientific projects that the candidate has led or participated in, in the area for which the competition is open, financed on a competitive basis by public funds, through national or international agencies, or financed by companies. In the quality evaluation, attention should be given to the funding obtained, the degree of demand of the call, the evaluations of the projects carried out and the prototypes made, particularly if they have resulted in products or services.

- Intervention in the scientific community and constitution of scientific teams. Evaluating the capacity of intervention in the scientific community, expressed namely through the organization of scientific congresses, participation as (co-)editor of journals, participation in scientific teams, participation in scientific conferences and in scientific teams.

6.1.2: Criteria for assessing the extension and dissemination of knowledge activities carried out in the last five years, namely in the context of promoting scientific culture and practices, considered of most relevance by the applicant (2 points);

Patents, registration and ownership of rights, drafting of technical standards and legislation. Authorship and co-authorship of patents, registrations and ownership of intellectual property rights on software, mathematical methods and rules of mental activity. Participation in standardization committees and in drafting legislation and technical standards. The assessment of this criterion shall also take into account the economic valorization resulting from patents and intellectual property rights.

Participation in consultancy, testing and measurement activities involving the business environment and/or the public sector. Participation as a trainer in vocational training or technological specialization courses aimed at companies or the public sector. The assessment of this criterion shall also take into account the economic value of the research results achieved, measured by the development and technology transfer contracts to which they gave rise and the spin-off companies to whose creation they contributed.

Participation in science and technology dissemination initiatives for the scientific community (for example, organization of congresses and conferences) and for different audiences. Scientific and technological dissemination publications. Presentation of lectures and seminars to the general public.



6.1.3: Criteria for assessing 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 (2 points);

Participation of the applicant in scientific, technological and innovation management activities, or in the observation and monitoring of the scientific and technological system or of higher education, in Portugal or abroad.

6.2 - The score obtained in the curricular assessment method is expressed on a numerical scale from 0 to 20, being the value given to hundredths.

6.3 - The jury will deliberate by means of a reasoned roll-call vote according to the evaluation criteria, with no abstentions allowed.

6.4 - The classification of each candidate is obtained by the average of the scores of each jury member. In case of a tie, the decision will be made by the President of the jury.

6.5 - Candidates who obtain a classification lower than 10 points are excluded from the competition.

7 - Interested parties' participation and decision:

7.1 - The final ranking project will be notified to the candidates, by e-mail, for the purposes of the hearing of interested parties.

7.2 - After the hearing of interested parties, the jury evaluates the allegations offered and approves the final list of candidates.

8 - Publication of the announcement of the competition:

In addition to publication in the 2nd series of the Diário da República, this public notice is also published:

- a) In the Public Employment Exchange;
- b) On the Internet site of the Foundation for Science and Technology, I. P., in Portuguese and English;
- c) On the Internet site of the University of Aveiro, in Portuguese and English;
- d) In a national newspaper.

9 - The present call for applications is exclusively aimed at filling the indicated vacancy and may be terminated until the final ranking list of the candidates is approved and expires with the respective occupation of the job position on offer.

10 - In compliance with paragraph h) of article 9 of the Constitution of the Portuguese Republic, the Public Administration, as an employer, actively promotes a policy of equal opportunities between men and women in access to employment and professional progress, scrupulously taking measures to avoid any form of discrimination.

May 11th, 2023 - The Rector, Professor Doctor Paulo Jorge dos Santos Gonçalves Ferreira.