

**NOVA University of Lisbon**  
**Faculty of Science and Technology**

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Deadline: 31/05/2024

**Opening of an international open competition for the recruitment of 1 Assistant Researcher  
for a scientific research career on a private law basis**

Professor José Júlio Alves Alferes, Director of the Faculty of Science and Technology of NOVA University of Lisbon, under the powers delegated by Order no. 181/2023, of 4 January, makes it known that, by order of de 26/04/2024 of the Rector of NOVA University of Lisbon, Prof. João Sàágua is open, for a period of 15 working days from the day immediately following the publication of this Notice in the Official Gazette, an international documentary competition, with internal reference "Inv.Aux.7-DQ", for the recruitment of a Assistant Researcher, in the scientific area of Chemistry, sub-area of Sustainable Chemistry, under the terms of an open-ended individual employment contract, in accordance with Law no. 7/2009, of 12 February, which approves the Labour Code, with its successive amendments, and under the terms of Regulation no. 393/2018, of 28 June.

This competition is open within the Associated Laboratory for Green Chemistry - Clean Technologies and Processes project, with the reference LA/P/0008/2020, financed by the Foundation for Science and Technology I.P, under Regulation no. 872/2019, of 12 November and other applicable national and Community legislation.

In compliance with paragraph h) of article 9 of the Constitution of the Portuguese Republic, NOVA University of Lisbon, as an employer, actively promotes a policy of equal opportunities between men and women in access to employment and professional progression, scrupulously providing in order to avoid any and all forms of discrimination. In this sense, terms such as "candidate", "selected", "recruited", "hired", "author", "researcher", among others that refer to the people applying for the competition, are not used in this Notice to refer to their gender.

**I - Workplace:**

The place of work will be at facilities of the Faculty of Science and Technology of NOVA University of Lisbon, located on the Caparica Campus, in the Department of Chemistry, Associated Laboratory for Green Chemistry - Clean Technologies and Processes research centre.

The employee will make all the journeys, in Portugal or abroad, inherent to their duties or necessary to carry out their activity.

## **II – Main functions and activities:**

The **Assistant** Researcher will be responsible for to carry out research in the areas of Chemistry, Inorganic Chemistry and Nanomaterials, with a specific focus on the preparation of Anisotropic Metallic Nanoparticles using bioactive molecules such as AMP, ADP, amino acids or purine bases for applications in Optoelectronics, Biocatalysis, Proteomics, Bioanalytics and Microbiology.

## **III - Remuneration position and exclusivity:**

The **Assistant** Researcher will receive a gross monthly salary of 3.446,76€, which is based on the 1st salary position in the category of Researcher Assistant, under the terms of annexes I and II of Regulation no. 393/2018, of 28 June, with the Public Administration salary updates applied.

The **Assistant** Researcher will be recruited on a full-time basis, which implies renouncing the exercise of any remunerated function or activity, whether public or private, including the exercise of a liberal profession, and the rules set out in article 52 will apply on a full-time basis under private law.

## **IV – Contracting modality**

The recruitment of the **Assistant** Researcher in the form of an individual open-ended contract will take place under the terms of the Regulation on the careers, recruitment and employment contracts of researchers under an employment contract at NOVA University of Lisbon - Regulation no. 393/2018, of 28 June.

Everything not included in this notice will be referred to Regulation no. 393/2018, of 28 June.

## **V - Applicant admission requirements**

1. Under the terms of the Statute of the Scientific Research Career, approved by Decree-Law no. 124/99, of 20 April (ECIC), as amended, it is a general requirement to hold a doctoral degree and have a relevant scientific curriculum in the area of the competition.
2. National, foreign and stateless candidates who hold a doctoral degree in the scientific area of the competition, duly registered and/or recognised in Portugal [mandatory requirement], and who meet the following minimum admissibility requirements may apply to this competition:
  - a) Proven experience in nano chemistry, synthesis of anisotropic metallic inorganic nanoparticles (Ag, Au, Pt/Pd) using bioactive molecules such as AMP, ADP, amino acids or purine bases, functionalisation and preparation of core-shell materials of controlled silica (crystalline and mesoporous) monodispersed and polymeric particles for encapsulation. Experience as an autonomous user and expert in the characterisation of nanomaterials and interpretation of SEM, TEM and HRTEM data, with good knowledge of UV-vis absorption and fluorescence spectroscopy, XPS and DLS applied to the area of sensors and nanoparticles. Experience in organising scientific congresses and hands-on experimental training courses in the area of expertise is also valued;
  - b) A minimum scientific productivity of 25 articles indexed in Scopus;
  - c) Have defended their doctorate at least 5 years ago.

## **VI – Application instructions**

1. The application must be instructed by filling in the respective application form, which is available at <https://www.fct.unl.pt/faculdade/concursos/investigadores>.
2. The application process must be accompanied by documentation in Portuguese or English.
3. The application should be submitted preferably by email, containing the following documents:
  - a) Certificate proving the Doctor's degree in the disciplinary area to which the competition relates;
  - b) Curriculum vitae of the candidate, which must include:
    - i) The identifications “Researcher ID”, “Scopus Author ID” and “Google Scholar ID”.
    - ii) Research and development activities and all other activities considered relevant to this tender procedure, in accordance with the terms of this announcement.
    - iii) Scientific and technological development plan (max. 5 pages A4)
  - c) Published works, mentioned in the curriculum vitae, namely the most representative ones, with regard to their contribution to the development and evolution of the disciplinary area in which the competition is opened;
  - d) Declaration, under oath, that if the jury chooses to request the documentation indicated in the previous paragraphs or any other scientific documentation mentioned in the candidate's curriculum vitae, it will be delivered within 10 working days;
  - e) Other documents that candidates deem relevant for the analysis of their application.

## **VII – Presentation of the application**

1. The documents supporting the application must be submitted by the 15th working day, counting from the day following the publication of this Notice in the Diário da República.
2. Candidates will submit their application documents, in a single PDF file, by email to the following address: [div.rh.recrutamento@fct.unl.pt](mailto:div.rh.recrutamento@fct.unl.pt).

## **VIII - Evaluation parameters**

1. In this call the candidates' ability and performance will be evaluated in the various parameters under the terms of article 16 of ECIC.
2. The curricular evaluation of the various candidates in each of the parameters described below shall take into consideration the scientific area in which the call is open.
3. The parameters to be taken into consideration in the curricular evaluation of the candidates, in each of the sections, are as follows:
  - a) Quality of Scientific and Technical Work (QSTW);

- b) Professional Experience and Training (PET);
- c) Contributions in Scientific Supervision Activities (CSA);
- d) Participation in Management Bodies (PMB);
- e) Provision of Services to the Community (PSC);
- f) Scientific and Technological Development Plan (STDP).

#### **IX - Interview**

1. The Jury will deliberate at the first meeting on the need to carry out an interview with all the candidates.
2. The interview, which does not constitute a selection method and is not graded, aims to obtain clarification or explanation of elements contained in the candidates' Curriculum vitae.

#### **X - Classification by absolute merit of candidates**

1. In accordance with paragraph 1 of article 27 of the Statute of the Scientific Research Career, approved by Decree-Law no. 124/99, of 20 April (ECIC), the jury will deliberate on the admissibility on absolute merit of the candidates, expressed by the formulas Rejected or Approved.
2. The candidate who succeeds in obtaining a favorable vote of more than half of the members of the jury is considered approved on absolute merit.

#### **XI- Ordering and voting methodology**

1. Once the candidates who have passed in absolute merit have been identified, the jury will proceed to rank them in relative merit.
2. Each member of the jury shall perform a curricular evaluation of the candidates by presenting a written opinion, to be later included in the minutes, in which they propose the ordering of the candidates based on the evaluation criteria indicated in this notice, scoring each candidate for each criterion on a numerical scale from 0 to 100 points.
3. The evaluation criteria indicated shall be weighted as follows:

##### **a) Quality of Scientific and Technical work (QSTW): 50%**

The relevance of the results obtained by the candidate will be taken into account, with great emphasis on the work indicated by the candidate as their most significant contributions to the advancement of knowledge in the area for which the competition is open;

##### **b) Professional Experience and Training (PET): 5%**

The candidate's previous experience and professional training will be taken into account;

**c) Contributions to Scientific Orientation Activities (CSOA): 10%**

Potential to constructively and proficiently coordinate and integrate nationally and internationally funded projects in the field for which the competition is open will be considered;

**d) Participation in Management Bodies (PMB): 5%**

Participation and performance in tasks assigned by the management bodies of the institutions to which you have been linked will be taken into account;

**e) Provision of Services to the Community (PSC): 15%**

The performance of tasks to economically and socially valorise knowledge will be considered, namely through the provision of services to the community.

**f) Scientific and technological development plan (STDP): 15%**

Consideration will be given to:

- i) Presentation of the main problems to which you intend to devote your future research, contextualising them within the current state of the art in these areas;
- ii) Systematised and succinct description of the research strategies the candidate proposes to adopt in order to carry out their research and solve or contribute to solving the problems they have set out;
- iii) Explanation of the reasons and motivations for their choices. The career development plan may not exceed 5 A4 pages written in 12 pt font size.

4. The ordering of the Approved candidates is done by voting of the members of the jury, respecting the ordering presented in the opinion referred to in the previous number, in the following terms:

- a) The first vote is intended to determine the candidate to be placed in first place;
- b) In the voting referred to in the previous paragraph, if a candidate obtains more than half of the votes to be placed in first place, he will be ranked in this position;
- c) If the situation referred to in the previous paragraph does not occur, a new vote is held, only among the candidates who obtained votes for 1st place, after removing the candidate least voted for that place in the previous vote;
- d) If there is more than one candidate to be withdrawn, due to an equal number of votes, with a minimum of one vote each, a vote is held only on these candidates to determine the candidate to be withdrawn from the next vote; in this voting, each member will vote, among the candidates with equal votes, for the candidate who occupies the lowest position in the ordering contained in his/her opinion;
- e) If there is a tie, the tiebreaker is done through the tiebreaker vote or casting vote of the president of the jury, under the terms of paragraph 3 of article 19 of the ECIC.

- f) Voting is repeated until it is determined, by the procedure described above, which candidate to rank first. If there are only two candidates left and each one of them gets half of the votes, the tiebreaker is done through the casting vote of the president of the jury;
- g) Once the candidate for first place is chosen, he is removed from the voting and the whole process is repeated for second place and so on until an ordered list of all candidates is obtained.

## **XII – Notifications and Hearing of Interested Parties**

1. There is a prior hearing, under the terms of the Code of Administrative Procedure, of candidates who have been rejected, and of candidates ordered in place of the ordering list of candidates that cannot be provided in the job position in the competition. All candidates are notified of the homologation of the jury's final deliberation.
2. Notifications are made by email.
3. The tender process can be consulted by the candidates, at the Human Resources Division of FCT NOVA, under the terms indicated in the aforementioned notification.

## **XIII – Jury composition**

1. Under the terms of Regulation no. 393/2018, of 28 June, the assessment of applications will be carried out by a jury and will follow the procedure set out in articles 16, 18, 19, 20, paragraphs 1 and 2, 21 to 23, 24, 26 and 27 of the Scientific Research Career Statute (ECIC).
2. Under the terms of Article 19 of the Scientific Research Career Statute, the jury must be composed of a minimum of five and a maximum of nine members:
3. It must include Researchers or Professors not belonging to the Institution for which the competition is open or national or foreign specialists, in a number not less than half minus one of the members of the jury.
4. The members of the competition jury are:

### **President:**

Doctor José Júlio Alves Alferes, Full Professor and Dean of the Faculty of Science and Technology of NOVA University of Lisbon, by delegation of competences.

### **Vowels:**

Doctor Nelsi Zaccheroni, Full Professor of *Università degli Studi di Bologna, Italy*;

Doctor Andrea Pucci, Full Professor of *Università di Pisa, Italy*;

Doctor José Manuel Costa Fernández, Full Professor of *Universidad of Oviedo, Spain*;

Doctor Júlia Lorenzo Rivera, Full Professor of *Universidad Autónoma de Barcelona, Spain*;

Doctor Philiswa Nosizo Nomngongo, Full Professor of *University of Johannesburg – South Africa*;

Doctor José Paulo Barbosa Mota, Full Professor of Faculdade de Ciências e Tecnologia da  
*Universidade Nova de Lisboa, Portugal*

#### **XIV - Data Protection**

In accordance with the RGPD – General Data Protection Regulation, the data collected will be processed exclusively for the processing of the application.

And for the record this Notice is published.

May 9, 2024 - The Dean, Prof. Doutor José Alferes