

CALL FOR AWARDING RESEARCH FELLOWSHIPS WITHIN PROJECT GRANTS AND R&D INSTITUTIONS

1 (one) Post-Doctoral Research Fellowship (BIPD)

1 Post Doctoral Research Fellowship(s) (BIPD) is(are) open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project/R&D institution “Arrows2cancer/Ruthenium-peptide conjugates: arrows for selectively targeting breast cancer/CQE”, “PTDC/QUI-QIN/0146/2020”, funded by the Fundação para a Ciência e a Tecnologia, I.P./MCTES through national funds (PIDDAC) under the programme Programme All Scientific Domains, under the following conditions:

1. **Scientific Area:** Chemistry, specialization in Inorganic Chemistry or associated fields
2. **Requirements for admission:** a) PhD degree granted within 3 years; b) Demonstrated experience in organometallic synthesis - Information provided in the CV and/or motivation letter; c) Experience in advanced techniques for the synthesis of air-sensitive compounds - Information provided in the CV and/or motivation letter; d) Experience in characterization techniques of organometallic compounds - Information provided in the CV and/or motivation letter; e) Proven scientific experience in the above-mentioned topics, demonstrated by the quality and number of scientific papers published in peer-reviewed scientific journals - Information provided in the CV and/or motivation letter.

The BIPD fellowship can only be granted if the following requirements are cumulatively met:

- a) The PhD degree has been obtained in the three years prior to the date of submission of the application for the fellowship;
- b) Post-doctoral research is carried out in a different host entity from the one where the research work that led to the attribution of PhD degree was carried out;
- c) Research activities do not require post-doctoral experience;
- d) Research activities have a development and execution period equal to or less than three years;
- e) The fellowship holder does not exceed, with the signing of the fellowship contract in question, including possible renewals, an accumulated period of three years in this type of fellowship, consecutive or interpolated.

3. **Additional optional skills and qualifications:** a) Experience in the preparation of ruthenium organometallic compounds - Information provided in the CV and/or motivation letter; b) Experience in peptide and metal-peptide synthesis - Information provided in the CV and/or motivation letter; c) Experience in spectroscopic characterization techniques, including UV-vis, FTIR, multinuclear NMR (¹H, ¹³C, ³¹P, COSY, HMQC, HMBC, DEPT, APT) and ESI-MS - Information provided in the CV and/or motivation letter; d) Experience in cyclic voltammetry - Information provided in the CV and/or motivation letter; e) Experience in handling and growing tumour cell lines - Information provided in the CV and/or motivation letter; f) Experience in analytical and preparative HPLC applications - Information provided in the CV and/or motivation letter; g) Authorship or co-authorship of scientific papers published in peer-reviewed scientific journals as 1st author and/or as corresponding author in the scientific areas of this call for applications - Information provided in the CV and/or motivation letter; h) Proficiency in Portuguese and English languages (written and spoken) – information provided in the CV and/or motivation letter.

4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas.

5. **Work plan:** The work plan to be executed includes the following tasks:
1) Synthesis and characterization of new Ru complexes, peptides and Ru-peptide conjugates; 2) Evaluation of cellular uptake and cell death mechanisms; 3) Radiolabeling of Ru-peptide conjugates; 4) Preparation and participation in project meetings and subsequent actions; 5) Publication of results in peer-reviewed scientific journals and other means; 4) Participation in dissemination activities, communication and involvement of project agents. The work plan

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is included in tasks 1, 2, 6 and 7 of the project Arrows2cancer, which may imply their execution (total or partial) at the C2TN facilities in Estrada Nacional 10, Bobadela, Portugal.

6. **Legislation framework:** Research Fellowship Holder Statute, in accordance with Law 40/2004, of 18 August, in its current version and the FCT Regulation for Research Studentships and Fellowships, in its current version (Reg. 950/2019 published in DR on 16th December: <https://dre.pt/application/file/a/127230968>, or at the FCT website: <https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>), and FCIências.ID Fellowship Regulation, as approved on 12th May 2020 (available at [Regulamento de Bolsas de Investigação Científica da FCIências.ID](#)).

7. **Place of work:** The work will be developed at the Centro de Química Estrutural – CQE@ciências, Faculdade de Ciências da Universidade de Lisboa under the scientific supervision of Professor Tânia Morais.

8. **Fellowship duration:** This position is initially opened for 6 months due to start in March 2023. The fellowship contract may be potentially renewed for 6 months

9. **Monthly allowance:** The fellowship amounts to € 1741, according to [table values](#) of the fellowships awarded directly by the FCT, IP. The fellowship holder will have a personal accident insurance and can ensure the right to social security through adherence to the voluntary social insurance scheme, if not covered by any other social protection scheme, pursuant to *Código dos Regimes Contributivos do Sistema Previdencial de Segurança Social*. The fellowship will be paid monthly by bank transfer.

10. **Evaluation and selection process:** Candidates will be assessed by

- a) Scientific publications in the area - 40%;
- b) Motivation letter - 20%;
- c) Participation in relevant scientific projects in the area - 20%;
- d) Pedagogical, extension and outreach activities of knowledge, in particular in the context of the promotion of scientific practices, organization of courses, seminars and conferences for promotion and dissemination in the area of this call - 20%

If necessary, an interview will be carried out with the 3 (three) best candidates. If there is an interview, the evaluation will be as follows: a) Scientific publications in the area – 40 %; b) Motivation letter - 20%; c) Participation in relevant scientific projects in the area – 15 %; d) Pedagogical, extension and outreach activities of knowledge, in particular in the context of the promotion of scientific practices, organization of courses, seminars and conferences for promotion and dissemination in the area of this call -15%; e) Interview- 10%.

Applicants whose application is scored with a final classification of less than 75 points are not eligible for granting a fellowship.

11. **Selection Committee:**

President: Doctor Tânia Morais, Junior researcher at Faculdade de Ciências da Universidade de Lisboa; 1st Member of the jury: Doctor Jaime Coelho, Assistant researcher at FCIências.ID, Faculdade de Ciências da Universidade de Lisboa; 2nd Member of the jury: Professor Carla Nunes, Assistant professor at Departamento de Química e Bioquímica da Faculdade de Ciências da Universidade de Lisboa; 1st Alternate Member of the jury: Doctor Andreia Valente, Assistant researcher at Faculdade de Ciências da Universidade de Lisboa; 2nd Alternate Member of the jury: Professor Maria José Brito, Assistant professor at Departamento de Química e Bioquímica da Faculdade de Ciências da Universidade de Lisboa..

12. **Publication/notification of results:** All the candidates will be notified by e-mail, sent by the call holder, with the selection meeting minutes enclosed.

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13. **Deadlines:** This call for applications is open from 21/02/2023 to 07/03/2023 .
14. **Application:** Applications should be sent via e-mail to tsmorais@ciencias.ulisboa.pt, by attaching the following documents:
- Curriculum vitae - **CV may be provided in PDF or through the [CIÊNCIAVITAE](#) system;**
 - Certificate of completion of previous degree;
 - Motivation letter, clearly demonstrating that the candidate has the professional experience required in the Admission Requirements;
 - Up to five publications relevant for the objectives of the work plan.
15. **Time limits for the appeal procedure:** In case of negative decision, the candidates have 10 business days, after the date of announcement of the results of the candidates evaluation, to pronounce their disagreement in accordance with the *Código do Procedimento Administrativo*. Appeals against the final decision may be submitted to the Administration Board of FCIências.ID (fciencias.id@fciencias-id.pt) within 15 business days after the notification date

Note 1: The documents that prove the entitlement of the academic qualifications and diplomas, or the proof of registration in the academic degree or diploma requested on the call, can be dismissed during the application period and replaced by a declaration on their honour from the applicant. Their delivery is mandatory for the fellowship contractualization.

Note 2: Please note that - higher education degrees and diplomas awarded by foreign higher education institutions need to be recognized by a Portuguese higher education institution, pursuant to the [Decree-Law nr. 66/2018](#) (August 16) and the [Ministerial Order nr. 33/2019](#) (January 25). The presentation of the recognition certificate is mandatory for contract signature. More information can be obtained at: <https://www.dges.gov.pt/en/pagina/degree-and-diploma-recognition>.