CONTEST FOR THE ATTRIBUTION OF A POST-DOCTORAL RESEARCH GRANT, UNDER THE PROJECT "DEVELOPMENT OF AN INDIVIDUAL RISK ASSESSMENT TOOL TO PREDICT ASTHMA AT SCHOOL AGE" (REF.ª 2022.07363.PTDC), AT THE PUBLIC HEALTH INSTITUTE OF UNIVERSITY OF PORTO

An open competition is open for the attribution of a post-doctoral research grant within the scope of the project **"Development of an individual risk assessment tool to predict asthma at school age"**, reference 2022.07363.PTDC, at the Instituto de Saúde Pública da Universidade do Porto, funded by the Foundation for Science and Technology (FCT) under the following conditions:

Application deadline: 28 of July to 11 August of 2023

1. Scientific Area: Immunoalergology and Epidemiology

2. Applicable legislation and regulations

Statute of Scientific Research Fellows, approved by Law n.º 40/2004 of August 18, as amended by Decree-Law n.º 123/2019, of August 28; Regulation no. 950/2019, of 29 November, published in Diário da República, no. 241, 2nd Series, of 16 December (FCT Research Grants Regulation, I.P.); Decree-Law No. 66/2018, of 16 August (Legal regime for the recognition of academic degrees and higher education diplomas awarded by foreign higher education institutions); Code of Administrative Procedure (CPA), approved by Decree-Law No. 4/2015, of January 7th.

3. Admission requirements

All individuals of legal age who meet the following requirements, supported by documents, may apply for this scholarship:

      a. PhD in Public Health or Medicine or Biomedicine or related areas;

b. The doctor's degree has been obtained in the three years prior to the date of submission of the scholarship application;

If the qualification has been conferred by a foreign higher education institution, it will have to be recognized by a Portuguese higher education institution, in accordance with the provisions of article 25 of Decree-Law no. the legal regime for the recognition of academic degrees and higher education diplomas awarded by foreign higher education institutions and paragraph e) of paragraph 2 of article 4 of Decree-Law no. 60/2018, of 3 August, and any formalities established therein must be fulfilled by the date of the hiring act.

4. Preference conditions

a) Doctoral degree in the areas of Health Sciences and/or areas considered related to Public Health Sciences (mathematics, sociology, economics, geography, ...);

b) Publications in journals in the first quartile in the field of allergology or nutrition;

c) Proven experience in machine learning analysis;

5. Functions to be performed

The main tasks to be carried out within the framework of the scholarship will be:

a) Extraction and analysis of data by machine learning to select the significant predictors of the development of asthma. Machine learning algorithms will be trained, tested, and compared with the traditional approach.

b) Analysis and interpretation of results as well as their applicability in a predictive tool of clinical utility that will allow the translation and integration of knowledge in daily practice, both at the clinical level and in the community.

6. Workplace and supervision

The work will be carried out at the Institute of Public Health of the University of Porto (ISPUP) and at the Faculty of Medicine of the University of Porto (FMUP), under the supervision of Doctor André Moreira.

7. Duration of scholarship

The scholarship will last for 12 months, starting on September 1, 2023, on an exclusive basis, eventually renewable, but not exceeding the date of completion of the project in 31/08/2024.

Note: Once the Post-Doctoral Research Fellowship contract has ended, a new fellowship contract cannot be signed between the same host entity and the same fellow.

8. Amount of the monthly maintenance subsidy

The amount of the scholarship corresponds to 1.741,00€, according to the table of scholarship values awarded directly by FCT, I.P. in the country.

9. Selection methods

The selection will be made based on the curriculum evaluation (AC) and, if the jury deems it necessary, a selection interview (E) with the first 3 candidates whose curriculum assessment score is equal to or greater than ten points. The final classification will be obtained by the following formula: 0,6 x AC + 0,4 x E, on a scale of 0 to 20 points/100. If there is no interview, the final classification will be the same as that obtained in the AC.

In the event that none of the candidates proves to have the profile indicated for carrying out the work plan, the jury reserves the right not to award the scholarship in the competition.

The target factors of curriculum evaluation are (0 to 20 points):

a) Academic path (which reflects the classifications of academic degrees), with a weighting of 60%.

Calculated on the basis of the final classifications contained in the academic degree certificates presented by the candidate in the application form: i) simple arithmetic average of the Bachelor's Degree + Master's or Integrated Master's classification; ii) only degree classification; or iii) Master's classification only.

For the purpose of calculating the sub-criterion, certificates that specify only a qualitative classification (for example, pre-Bologna masters), it will be converted in the following terms:

Qualitative classification of "Excellent, Very Good with Distinction, Distinction and Cum Laude, Magna Cum Laude / Summa Cum Laude" converted to 18;

Qualitative classification of "Very Good, Approved with Distinction, Good with Distinction, Cum Laude" converted into 16;

Qualitative classification of "Good Approved / Unanimously Approved" converted into 14;

Qualitative rating of "Suficiente" converted to 12;

b) Scientific production and participation in research projects, with a weighting of 20%;

c) Professional experience, with a weighting of 20%.

The evaluation factors for the selection interview, if it takes place, will be (0 to 20 points):

a) Motivation and availability, knowledge, and professional attitude.

b) Interpersonal relationship and communication skills.

Each of these interview (I) sub-criteria will be evaluated (from 0 to 20 points) by the members of the Jury present at the I, being the evaluation of I the result of the arithmetic mean of the sub-criteria.

10. Composition of the Selection Jury

President – President: André Miguel Afonso de Sousa Moreira

1st effective member – Susana Moreira da Silva Santos

2nd effective member – Pedro Alexandre Afonso de Sousa Moreira

Substitute member – Inês Ribeiro Paciência

11. Formalization of applications

11.1 The contest is open until 11 August of 2023.

11.2 Applications must be formalised, obligatorily, via email to the address aplications@ispup.up.pt, with the refª "BI – PosDoc ORACLE" in the subject, accompanied by the following documents, of mandatory presentation:

  a) Letter of Motivation;

  b) Curriculum Vitae;

  c) Documents proving that the candidate meets the conditions required for the type of scholarship applied for, namely certificates of qualifications with a final average, grade recognition (if applicable);

  d) Other documents considered relevant by the candidate.

11.3 If the documents identified above are not presented in the application, this will result in the administrative exclusion of candidates.

12. Form of publication/notification of results

a) The final results of the evaluation will be disclosed by sending the minutes via email provided at the time of application.

b) Candidates have a period of 10 working days, counting from the day immediately after notification, to give their opinion, if they wish, in a prior hearing.

13. Non-discrimination and equal access policy

ISPUP actively promotes a policy of non-discrimination and equal access, whereby no candidate may be privileged, benefited, harmed or deprived of any right or exempt from any duty due to , namely, ancestry, age, sex, sexual orientation, marital status, family situation, economic situation, education, origin or social condition, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic origin or race, territory origin, language, religion, political or ideological convictions and trade union affiliation.

14. Privacy and data protection policy

ISPUP is committed to complying with personal data protection legislation in order to protect the data and privacy of employees, students and partners. As controller, ISPUP undertakes to treat all data collected in the application process in accordance with the procedures defined in the legislation on data protection and in accordance with the provisions of the Privacy Policy.