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INEB - Instituto Nacional de Engenharia Biomédica

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English

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1. Descrição do cargo/posição/bolsa 1. Job description

Job:

Junior Research Position m/f

Job/Fellowship Reference: AbSCisSA_ID_02_2020

Main research field: Not available

Sub research field:

Job summary:

ANNOUNCEMENT FOR THE OPENING OF AN INTERNATIONAL SELECTION TENDER PROCEDURE FOR DOCTORATE HIRING PURSUANT TO ARTICLE 23 DECREE-LAW NO. 57/2016 OF 29 AUGUST, amended by 57/2017 Law of 19 July

Internal reference: AbSCisSA_ID_02_2020

The meeting of the Board of Directors of INEB deliberated the opening of an international selection tender for 1 vacancy of doctorate to perform duties of research in the scientific areas of Stem Cell Biology under a work contract with non-fixed term, under the Portuguese labor Law in order to perform duties in the aim of project PTDC/MED-OUT/32656/2017 /POCI-01-0145-FEDER-032656 – AbSCisSA: Disclosing Hematopoietic Stem Cell Self-renewal at the Developing Fetal Liver Intersection, as researcher within Stem Cells in Regenerative Biology and Repair group at INEB.i3S, financed by FEDER – Fundo Europeu de Desenvolvimento Regional através do COMPETE 2020 no Programa Operacional de Competitividade e Internacionalização (POCI), Portugal 2020 e pela FCT, através de fundos do MCTES

Any national, foreign and stateless candidate who holds a doctorate degree in Biomedical Sciences and a scientific and professional curriculum whose profile is suited for the activity to be performed can submit their applications.

If the doctorate has been awarded by a foreign higher education institution, it must comply with the provisions of Decree-Law no. 66/2018, of August 16, and any formalities established therein must be complied with. The selection panel has the right to invite to the position the next best classified candidate in case the first candidate does not conform to the formalities established therein.

The tender admission requirements for the position are:

- PhD in Biomedical Sciences and related areas,
- Proven experience on: a) advanced flow cytometry analysis and sorting strategies for identification of rare cell-populations; b) in vitro culture of primary and secondary cells , mouse and human; c) genetically modified mouse models; d) histology, immunohistochemistry and immunofluorescence, processing and image analysis; e) gene expression analysis by RT-qPCR and validation by standard techniques,
- Previous work in animal experimentation (mouse model) is a fundamental requisite,
- Previous work on stem cells (preferably hematopoietic) and/or immunology will.

Job description:

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1. The meeting of the Board of Directors of INEB deliberated the opening of an international selection tender for 1 vacancy of doctorate to perform duties of research in the scientific areas of Stem Cell Biology under a work contract with non-fixed term under the Portuguese labor Law in order to perform duties in the aim of project PTDC/MED-OUT/32656/2017 /POCI-01-0145-FEDER-032656 – AbSCisSA: Disclosing Hematopoietic Stem Cell Self-renewal at the Developing Fetal Liver Intersection, as researcher within Stem Cells in Regenerative Biology and Repair group at INEB.i3S, financed by FEDER – Fundo Europeu de Desenvolvimento Regional através do COMPETE 2020 no Programa Operacional de Competitividade e Internacionalização (POCI), Portugal 2020 e pela FCT, através de fundos do MCTES

2. Summary:

Hematopoiesis occurs in specialized organs and the role of the environment in the behavior of

hematopoietic progenitors is increasingly recognized. There is compelling evidence that the major hematopoietic supportive stromal elements in the bone marrow (BM) are endothelial cells and mesenchymal cells. In contrast, very little information exists on the stromal compartment in fetal liver (FL) which is the major hematopoietic organ during embryonic development and the only site where hematopoietic stem cells (HSC) expand. The goals of this work proposal are: i) Characterize the FL stromal compartment that condition hematopoietic development and their role in lineage commitment. ii) Identify the environmental signals that drive self-renewal versus differentiation in vivo. iii) Recapitulate a microenvironment for ex vivo expansion of HSC. This project will increase mechanistic understanding of physiologic self-renewal at the intersection of hepatic and hematopoietic development.

3. Applicable Legislation

- Decree-Law no. 57/2016 of 29 August, amended by Law 57/2017 of 19 July, which approved the doctorate hiring regime destined to stimulate scientific and technological employment for all knowledge areas (RJEC).
- Labor Law no. 7/2009, of February 12, in its current version.
- Regulatory Decree Nr 11-A / 2017, of 29th December.

4. Pursuant to article 13 of RJEC, the tender selection panel shall be formed by:

Presidente: Perpétua Pinto do Ó
Vogal: Diana Nascimento
Vogal: Maria José Oliveira

Vogal suplente: Raquel Gonçalves
Vogal suplente: Susana Santos

5. Workplace

i3S – Rua de Alfredo Allen, 208, Porto.

6. Gross monthly remuneration is 2.134,73€, in accordance with subsection a), section 1, article 15 from Law nr 57/2017, 19th July, and with the remuneration position at initial level predicted in article 2 of Regulatory Decree nr 11- A/2017, of 29th December, correspondent to level 33 at Tabela Remuneratória Única, approved by Order nr 1553-C/2008, 31st December.

7. Any national, foreign and stateless candidate who holds a doctorate degree in Biomedical Sciences and a scientific and professional curriculum whose profile is suited for the activity to be performed can submit their applications.

If the doctorate has been awarded by a foreign higher education institution, it must comply with the provisions of Decree-Law no. 66/2018, of August 16, and any formalities established therein must be complied with. The selection panel has the right to invite to the position the next best classified candidate in case the first candidate does not conform to the formalities established therein.

8. The tender admission requirements for the position are:

- PhD in Biomedical Sciences and related areas,
- Proven experience on: a) advanced flow cytometry analysis and sorting strategies for identification of rare cell-populations; b) in vitro culture of primary and secondary cells, mouse and human; c) genetically modified mouse models; d) histology, immunohistochemistry and immunofluorescence, processing and image analysis; e) gene expression analysis by RT-qPCR and validation by standard techniques,
- Previous work in animal experimentation (mouse model) is a fundamental requisite,
- Previous work on stem cells (preferably hematopoietic) and/or immunology will.

9. Pursuant to article 5 of RJEC, selection is to be made based on candidate scientific and curricular career evaluation.

10. Scientific and curricular career evaluation focuses on relevance, quality and up-to-date:

- a) of scientific and technological production in the last five years, deemed most relevant by the candidate;
- b) of research activities, applied or based on practical work, developed in the last five years, deemed most impactful by the candidate;
- c) of knowledge extension and dissemination activities developed in the last five years, namely under the scope of the promotion of culture and scientific practices, deemed most relevant by the candidate.

11. The five-year period mentioned above can be extended by the panel, if requested by the candidate, whenever the suspension of scientific activities is reasoned by socially protected grounds like paternity leave, long-term serious illness, and other legal situations of unavailability to work.

12. The criteria of evaluation are scientific and curricular path.

The assessment of the applicants' CV, in particular scientific merit and research capacity, shall be based on the following criteria:

a) Detailed CV (70%):

- Research experience, being valorised its relevance for this project work plan (35%)
- Scientific publications authorship, being valorised its relevance for this project work plan (25%)
- Experience in research work supervision (10%)

b) Motivation letter (20%):

- Interest and motivation for the area where the hiring profile fit in (10%)
- English language skills and written communication abilities (10%)

c) Interview (10%):

Candidates scoring higher than 80% on criteria a) and b) will be subject to an interview.

13. Candidate final classification system shall be given based on a scale 0-100.

14. The panel shall deliberate by means of roll-call vote justified under adopted and disclosed selection criteria, with no abstentions allowed.

15. Minutes of panel meetings shall be executed and shall include a summary of all occurrences of said meeting, as well as of all votes casted by the members and respective

reasoning, and shall be provided to candidates whenever required.

16. After selection criteria application, the panel shall prepare a sorted list of approved candidates and respective classification.

17. Panel's final decision shall be validated by the leader of the institution, who is also in charge of deciding about the hiring.

18. Application formalization

18.1 Candidates formalize their online application by completing the required fields requested on the form and submitting the motivation letter in English addressed to the president of the jury, stating the identification of the position, full name, address, e-mail address and telephone contact, also presenting the supporting documents, obligatorily in digital format, in PDF format, from August 11 to September 12, 2020, at:
http://portal.i3s.up.pt/gestaocandidaturasineb/index.php?codigo=AbSCisSA_ID_02_2020

18.2 Applications shall include all supported documents encompassed by section 7 and 8 for tender admission, namely:

- a) Copy of certificate or diploma;
- b) Detailed curriculum vitae, structured in accordance with items 9 and 11;
- c) Letter of motivation in English;
- d) Brief description of the most relevant scientific activities of the last 5 years (maximum 1/2 / 1 page), according to article 5, number 2, RJEC and item 9 of this edict;
- e) Other documents relevant for the evaluation of qualification in related scientific area.

19. All candidates who formalize the application in an improper way or fail to prove the requirements imposed by this tender are excluded from admission. In case of doubt, the panel is entitled to request any candidate to present further documentation supporting their statements.

20. False statements provided by the candidates shall be punished by law.

21. Both admitted and excluded candidate list and final classification list shall be published in the website of INEB www.ineb.up.pt, and the candidates are notified by email. After publication, all candidates have 10 working days to respond. Panel's final decisions are pronounced within a period of 90 working days, from the application deadline, published at INEB website www.ineb.up.pt

Expected date of start: 16 October 2020.

22. The present tender is exclusively destined to fill the specify vacancy and can be terminated at any time until approval of final candidate list, expiring with the respective occupation of said vacancy.

23. Non-discrimination and equal access policy: INEB actively promotes a nondiscrimination and equal access policy, wherefore no candidate can be privileged, benefited, impaired or deprived of any rights whatsoever, or be exempt of any duties based on their ancestry, age, sex, sexual preference, marital status, family and economic conditions, instruction, origin or social conditions, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic origin or race, origin territory, language, religion, political or ideological convictions and union membership.

24. Pursuant to Decree-Law no. 29/2001 of 3 February, disabled candidates shall be preferred in a situation of equal classification, and said preference supersedes any legal preferences. Candidates must declare, on their honor, their respective disability degree, type of disability and communication/expression means to be used during selection period on their application form, under the regulations above.

25. The panel has approved this announcement in meeting held on 07/08/2020.

Vacant posts: 1

Type of contract: Other

Job country: Portugal

Job city: PORTO

Job company/institute: INEB - Instituto Engenharia Biomedica

Application deadline: 12 Setembro 2020

(The Application's deadline must be confirmed on the Job Description)

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2. Dados de contactos da organização

2. Organization contact data

Organization/institute: INEB - Instituto Nacional de Engenharia Biomédica

Address:

Rua Alfredo Allen, 208
Porto - 4200-135 Porto

Portugal

Email: info@ineb.up.pt

Website: <http://www.ineb.up.pt>

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3. Habilitações académicas 3. Required education Level

Degree:	<ul style="list-style-type: none">• PhD in Biomedical Sciences and related areas, • Proven experience on: a) advanced flow cytometry analysis and sorting strategies for identification of rare cell-populations; b) in vitro culture of primary and secondary cells , mouse and human; c) genetically modified mouse models; d) histology, immunohistochemistry and immunofluorescence, processing and image analysis; e) gene expression analysis by RT-qPCR and validation by standard techniques.
Degree field:	Not available
Degree:	? Doutoramento em Ciências Biomédicas e áreas afins, ? Experiência em: a) análise avançada de citometria de fluxo laminar e estratégias de triagem para identificação de populações celulares raras; b) cultura in vitro de células primárias e secundárias, murinas e humanas; c) modelos murinos geneticamente modificados; d) histologia, imunohistoquímica e imunofluorescência, processamento e análise de imagem; e) análise da expressão gênica por RT-qPCR e validação por técnicas standard, ? É requisito essencial a experiência em trabalho com modelo animal murganho
Degree field:	Not available

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4. Línguas exigidas 4. Required languages

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5. Experiência exigida em investigação 5. Required research experience

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