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## For Organisations

## INEB - Instituto Nacional de Engenharia Biomédica

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## Overview

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Unique identifier: 812bb22c-4215-483e-b8e9-ae84e6989a94

English

Português

## 1. Descrição do cargo/posição/bolsa

## 1. Job description

**Job:**

Junior Research Position m/f

**Job/Fellowship Reference:** AntINFECT\_ID\_01\_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: AntINFECT\_ID\_01\_2020

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 Nanotechnology (Engineering and Technology) under a work contract with non-fixed term under the Portuguese labor Law in order to perform duties in the aim of project PTDC/NAN-MAT/31781/2017 and POCI-01-0145-FEDER-031781- Bioengineered Advanced Therapies for Problematic Infected Wounds, as researcher within Bioengineered Surfaces group at INEB.i3S financed by FEDER – Fundo Europeu de Desenvolvimento Regional através do COMPETE 2020 Any national, foreign and stateless candidate who holds a doctorate degree in in Bioengineering, Biomedical Engineering, Engineering Science or related areas 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 Bioengineering, Biomedical Engineering, Engineering Science or related areas,

? Proven experience relevant to the project, namely in the development of polymeric biomaterials; surface characterization of biomaterials;

? Preference will be given to candidates with experience in a) chemical functionalization/immobilization of biomolecules into biomaterials surfaces; b) in vitro tests to assess the antimicrobial effectiveness of biomaterials; c) in vivo tests to assess the antimicrobial effectiveness of biomaterials;

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no Programa Operacional de Competitividade e Internacionalização (POCI), Portugal 2020 and FCT, through MCTES funds

## 2. Summary:

Acute and chronic wound infections represent a major health problem, being a huge burden for patients, health care professionals and health care systems. Patients with infected wounds are at risk of severe pain, septicemia, hospitalization, and in some cases amputations. Despite advances in clinical treatments, problematic wound infections are expected to rise in the near future with the increase in life expectancy and certain diseases that compromise vascularization, such as diabetes. Moreover, the fast spreading of antibiotic-resistant microorganisms can lead to failure of treatments based on conventional antibiotics. Negative pressure wound therapy (NPWT) is the latest technology to promote healing in acute and chronic wounds. However, its application in infected wounds is controversial, as live bacteria retained in the sponge dressing may re-colonize the wound during non-vacuum periods. This project intends to develop an advanced/innovative theranostic system, able to diagnose and prevent/treat infection in problematic wounds. The system will consist on a polymeric sponge with diagnostic and antimicrobial function that can be further reinforced by controlled administration of antimicrobials, if infection is detected. This process will allow multiple treatments without dressing replacement (~7 days).

## 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:

President: Cristina Martins  
Vowel: Inês Gonçalves  
Vowel: Fabíola Costa

Substitute: Cláudia Monteiro Substitute: Paula Parreira

## 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 in Bioengineering, Biomedical Engineering, Engineering Science or related areas 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 Bioengineering, Biomedical Engineering, Engineering Science or related areas,
- ? Proven experience relevant to the project, namely in the development of polymeric biomaterials; surface characterization of biomaterials;
- ? Preference will be given to candidates with experience in a) chemical functionalization/immobilization of biomolecules into biomaterials surfaces; b) in vitro tests to assess the antimicrobial effectiveness of biomaterials; c) in vivo tests to assess the antimicrobial effectiveness of biomaterials;

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 November 30 to December 16, 2020, at:

[http://portal.i3s.up.pt/gestaocandidaturasineb/index.php?codigo=AntINFECT\\_ID\\_01\\_2020](http://portal.i3s.up.pt/gestaocandidaturasineb/index.php?codigo=AntINFECT_ID_01_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](http://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](http://www.ineb.up.pt). Expected date of start: 16 January 2021

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 26/11/2020.

**Vacant posts:** 1

**Type of contract:** Other

**Job country:** Portugal

**Job city:** Porto

**Job company/institute:** INEB - Instituto Engenharia Biomedica

**Application deadline:** 16 Dezembro 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](mailto:info@ineb.up.pt)

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

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## 3. Habilitações académicas 3. Required education Level

**Degree:**

? Doutoramento em Bioengenharia, Engenharia Biomédica, Ciências de Engenharia ou área afins, ? Experiência comprovada relevante para o projeto, nomeadamente no desenvolvimento de biomateriais poliméricos; caracterização de superfície de biomateriais;  
? PhD in Bioengineering, Biomedical Engineering, Engineering Science or related areas, ? Proven experience relevant to the project, namely in the development of polymeric biomaterials; surface characterization of biomaterials; ·

**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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