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Project financed from the Horizon Europe Work Program
2021-2027, Grant agreement 101087007-eBio-hub



EMPLOYMENT POSITION

eBio-hub: Director of Center of Excellence in Bioengineering



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Program: Horizon Europe 2021-2027 - HORIZON-WIDERA-2022-TALENTS-01

Project name: **EBIO-HUB: CHAIR OF RESEARCH CENTRE IN BIOMEDICAL ENGINEERING**

Project acronym: eBio-hub

eBio-hub - Director of Center of Excellence in Bioengineering – (full time)

The deadline for the applicants is May 9th 2024

1. National University of Science and Technology POLITEHNICA Bucharest

National University of Science and Technology POLITEHNICA Bucharest (NUSTPB) is the largest and the oldest technical university in the country and among the most prestigious universities in Romania.

NUSTPB pretends the status of advanced research and Education University. Its mission is designed at the intersection of education with its applications: vocational training, scientific research, knowledge production, innovation as the main objectives of the society and the economy based on knowledge, as recorded in the European and Romanian research strategy. NUSTPB assumes the concept of an innovative university, in terms of human capital formation, which conditions a country's innovation capacity and scientific research, which produces knowledge, innovation and technological upgrading that condition the country's economic growth. The university's teaching and research staff performing - 1379 academic staff working in 53 departments and 38 research centres. Their work is supported by auxiliary staff - 696 people and over 600 people in the administrative field.

The Strategic Field of NUSTPB (according to the NUSTPB Strategy) is the biomedical engineering, biotechnology, medical and environmental technologies, micro- and nanotechnology and advanced materials, the university encouraging in this area:

- the development of research centres – eBio-hub is a priority,
- the business of creating and maintaining links with the socio-economic environment for harnessing the competitive edge leader in the field of technical education of NUSTPB,
- cross the master programs on research lab / scientific research centres of NUSTPB, and encouraging doctorate in strategic areas,
- encouraging international competitiveness in strategic areas.

NUSTPB has close ties with Romanian companies and foreign enterprises. Our partners include multinational corporations and Romanian companies. As we are fully aware of the importance of knowledge and skills in obtaining our financial sources, we are increasingly developing our market-oriented activities every year.



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2. eBio-hub project

The main objective of **eBio-hub** is to establish a *Center of Excellence in Bioengineering* within the National University of Science and Technology POLITEHNICA Bucharest (NUSTPB). The goal of **eBio-hub** project is to unlock and foster excellent research in biomedical engineering, capitalizing the existing knowledge in NUSTPB and integrating with local research and clinical expertise from University of Bucharest, Carol Davila University of Medicine and Pharmacy and local hospitals as well as making use of the state-of-the-art research infrastructure in biomedical engineering (INOVABIOMED) by setting up a strong research group and attracting top academics in the field, rising the competitiveness of NUSTPB research in the European Research Area (ERA).

eBio-hub will operate as an interdisciplinary research center at the interface between chemistry, biology, IT, micro and nanotechnology and medicine. The project aims to develop micro, nano and bio-integrated solutions that will address major global challenges in the biomedical field. In this context, **eBio-hub** will increase the attractiveness and impact of the National University of Science and Technology POLITEHNICA Bucharest through research excellence (illustrated quantitatively and qualitatively through indicators such as publications in peer reviewed journals, national and international collaboration or grants). Furthermore, the project will contribute to the growth of Romanian and EU economy by attracting and nurturing research talents, creating portfolios of intellectual property, supporting the local industry or commercializing new technologies.

More information can be found <https://ebio-hub.upb.ro/>

3. Position offered: Director of Center of Excellence in Bioengineering

The Director is expected to manage and conduct the research activity of the Center in the following fields:

- molecular diagnostics,
- nanomedicine,
- transdermal drug delivery,
- e-Tattoo

4. Expectations

The applicant needs to fulfil the following conditions:

- meet the criteria for R4 (Leading Researcher - Researchers leading their research area or field) researcher profile based on the descriptors of the European Framework for



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Research Careers (<https://euraxess.ec.europa.eu/europe/career-development/training-researchers/research-profiles-descriptors>)

- Research experience in the field of Biomedical engineering / Bioengineering, which should be proved through publications and patents (at list 100 publications in Scopus).
- Experience in leading teams (minimum 3 years).
- Experience in leading national and international projects (director or manager of minimum 3 projects with the total granted budget over 2 mil. Euros).
- Experience in working with interdisciplinary teams.
- Experience in research in the field of bioengineering more than 10 years.
- Habilitation certificate in an engineering filed
- Strong English communication skills able to work in a multicultural and international team.

5. Rights and responsibilities

The Director of Center of Excellence in Bioengineering will have the following rights and responsibilities:

- to ensure the framework for carrying out scientific research and development activities, according to above mentioned fields
- to collaborate with the internal structures of the university to fulfil its strategic objectives;
- to identify and attract funding sources for the Center activity;
- to develop the center's collaborative relationships with partners from the socio-economic environment and with research entities at national and international level;
- to represent, personally or by delegate, the center's interests in relations with organizations and economic operators, as well as with natural persons from the country and abroad;
- to establish the attributions, competences and mode of collaboration at the level of the center, as well as their relations with third parties;
- to seek to attract high-quality human resources for the implementation and/or development of the center's research directions;
- to propose the appointment and/or revocation of research team leaders (Group Leaders), if necessary;
- to propose to the Board of Administration of the University the modification of the organizational and functional structure of Center;
- to propose the Coordinating Council to withdraw membership of Center;
- can delegate part of his duties to the deputy directors or one of the leaders of the center's research teams;
- to select the members of the Scientific Advisory Board (SAB);



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- to exercise other duties within the Center that are delegated by the University's Administrative Council.

6. Remuneration package

eBio-hub is offering an attractive remuneration package to the Director of Center of Excellence in Bioengineering, which will be detailed presented once the hiring level and the candidate's work experience is known. Moreover, there are also other financial benefits (involvement in other research activities/projects) that depends on the performances of candidate and national regulations.

7. Application

The job offer for this position will open on April 18th 2024 and close on May 9th 2024.

Applications should contain (in the same order):

1. Copy of the relevant document proving that the candidate holds the required qualifications;
2. Curriculum vitae including the following:
 - a) evidence of the required expertise in the field of bioengineering,
 - b) research record,
 - c) experience in research projects,
3. list of publications, including h-index (WOS) and citations;
4. Motivation letter (2 pages maximum) describing the vision of the candidate in the field of Biomedical Engineering/Bioengineering
5. Two Recommendation letters,
6. Other materials considered relevant by the candidate (Copies of Training certificates, Excellence diplomas, etc).

Applicants have to use the position name “**Director of Center**” in the title of their application. Applications should be in English and sent to the following e-mail address: resurse.umane@upb.ro

Additional information is available on: <https://ebio-hub.upb.ro/>, Project director, Horia Iovu (horia.iovu@upb.ro). Contact person: Jana Ghitman - DPD (jana.ghitman@upb.ro).

The selection will be done in two rounds: 1st all applicants will be evaluated to rank the candidates and, in the 2nd step the selected applicants will be invited to the interview with an international recruitment panel.

The recruitment will be based on open, transparent, merit-based process, agreeing with the Open recruitment policy and the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers.

We welcome applications from all qualified candidates who fulfil the requirements specified in the announcement.