

P.N. 0443-P/130806
22 January 2024

One (1) PhD Student Position

[Ref # ORZ-0585]

The Biosensors lab (<https://www.gizeligroup.eu/>), headed by Prof. Electra Gizeli, invites applications from a **PhD student** for one position to work in the newly awarded EU **HORIZON-HLTH-2023-TOOL-05** project entitled “Development of a global diagnostic ecosystem for detecting and monitoring emergency-prone pathogens across species and in a unified way” Towards an instrument-free future of molecular diagnostics at the point-of-care” Acronym: UniHealth.

Job Description:

We are looking for a PhD student to work on the development of nanoparticles for application to molecular diagnostics using isothermal amplification and naked-eye colorimetric detection

About the lab and new posts: The successful applicants will be expected to join in a **multidisciplinary group** consisting of biologists, chemists, engineers, bio-physicists and material scientists and contribute as well in **innovation-driven research** related to the development of point-of-care methodologies. In addition, she/he will be encouraged to **supervise** undergraduate and/or master students, participate in **technology transfer** events, contribute towards the **broad dissemination of science** and **develop skills** related to presentations, grant-applications and scientific papers writing.

About the project:

The project capitalizes on recent advancements in biosensors lab regarding new methodologies and platforms that allow the rapid, reliable and simple detection of pathogens directly in crude samples (saliva, plant tissue, etc.). The final aim of the project is to develop innovative diagnostic solutions for the broad screening of Corona, Flu and Arbo- viruses as well as specific detection of west Nile virus, Dengue and Zika, all in unprocessed crude samples. Close collaboration with groups for clinical validation, EU-certification and the broad dissemination of the project results will be a major part of the project. Moreover, the consortium includes academic/research, clinical and industrial partners from Europe, Africa and the USA.

Required qualifications:

- BSc in physics, material sciences, or other relevant areas
- MSc in nanoparticles, nanotechnology or other relevant area
- Enrollment in a postgraduate program leading to a doctoral degree
- Excellent oral and written skills in English language
- More than 1 years’ experience on the development of nanoparticles and their application to diagnostics

Desired qualifications/requirements:

- Previous lab experience on the use of isothermal amplification assays such as LAMP and RPA
- One or more publications within the above areas
- Ability to start in the next 2 months.



	Evaluation criteria	Maximum score
1.	BSc in physics, material sciences, or other relevant areas (Score points = grade x 2)	20
2.	MSc in nanoparticles, nanotechnology or other relevant area (Score points = grade x 2)	20
3.	Enrollment in Post-Graduate Program	YES / NO
4.	Relevant laboratory experience on the use of isothermal amplification assays such as LAMP and RPA (6-12 months = 5 points, 12-24 months = 10 points, 24-36 months = 15 points, >36 months = 20 points)	20
5.	Experience on the development of nanoparticles and their application to diagnostics (6 months = 10 points, > =12 months = 20 points)	20
6.	Oral and written skills in the English language (B1 = 1 point, B2 = 5 points, C1 = 7.5 points, C2 = 10 points)	10
7.	One or more publications in the relevant areas (1 publication = 1 point)	10
8.	Ability to start in the next 2 months	YES / NO
Total score		100

Contract Duration: 12 months with the possibility of extension for another three years needs

Salary: 900-1200€ net per month depending on age

Envisaged starting date: 1st March 2024

Application submission: Interested applicants should submit their application electronically by **February 01, 2024 @ 13:00 (Greece time)**

The application should consist of:

1. Application Form (see below)
2. CV
3. Brief statement of purpose
4. The names and contact details of two referees
5. Scanned copies of academic titles
6. Scanned copies proving all the qualifications

Submission of applications: orz0585@imbb.forth.gr

Evaluation procedure

Applications will be evaluated by a three-member evaluation committee. In case of interview procedure, applicants will be invited to participate in person or teleconference.

In case of titles and qualifications awarded by foreign Higher Education Institutions, the provisions of the Law 55/2023 (article 36) and 4957/2022 (article 304) are implemented.

The results of the selection will be announced on the website of IMBB-FORTH. Applicants have the right to appeal the selection decision, by addressing their written objection to the IMBB secretariat within five days since the results announcement on the web. Objections are submitted in one of the following ways: in person, by an authorized person, by post, by courier. They also have the right to access (a) the files of the applicants as well as (b) the table of applicants' scores (ranking of applicants results). All the above information related to the selection procedure will be available at the secretariat of IMBB-FORTH in line with the Hellenic Data Protection Authority. Access to personal data of co- applicants shall be limited to personal data (and relevant data) and supporting documents which have been the basis of the evaluation of the applicants for the specific

post(s). Prior to the announcement of the personal data and/or documents of the co- applicants to the applicant, FORTH will inform the data subjects in an appropriate way.

The selected applicants will be notified personally regarding the success of his/her application and will be requested to submit certified copies of his/her degrees. If the submitted documents do not agree with the original application, the applicant will be dismissed.

GDPR Disclaimer

FORTH is compliant with all legal procedures for the processing of personal data as defined by the Regulation EU/2016/679 on the protection of natural persons with regard to the processing of personal data. FORTH processes the personal data and relevant supporting documents that applicants have submitted. Processing of that data is carried out exclusively for the needs and purposes of this specific call. Such data shall not be transmitted to or communicated to any third party unless required by law.

FORTH retains the above data up to the announcement of the final results of the call, unless further process and reservation is required by law or for purposes of exercise, enforcement, prosecution of certain one's legitimate legal rights' as defined in the Regulation EU/2016/679 and/or in national law. Under the Regulation EU/2016/679, applicants have the rights to be informed about their personal data, access to, rectification and erasure, restrictions of process and objection to as provided by applicable regulation and national laws. Applicants have the right to file a complaint to the national Data Protection Authority. For any further information regarding exercise of personal data protection rights, applicants may contact the Data Protection Officer at FORTH at dpo@admin.forth.gr.

Applicants have the right to withdraw their application and consent for the processing of personal data at any time. In this case, FORTH shall destroy such documents and/or supporting documents submitted and shall delete the related personal data.

APPLICATION FORM

Name: _____
Surname: _____
Date of birth (dd/mm/yy): _____
Address: _____
Telephone number: _____
Email address: _____

TO
FOUNDATION OF RESEARCH AND TECHNOLOGY (FORTH)
INSTITUTE OF MOLECULAR BIOLOGY AND BIOTECHNOLOGY

Hereby I submit my application for the position:

In the framework of the project: _____

Position code [Ref #] _____

Submitted with this application:

1. _____
2. _____
3. _____
4. _____
5. _____

I certify that:

- A) I accept the terms and conditions of the job announcement
- B) I possess all the necessary certificates and documents and I can present them in their original form to the committee without any delay if I am asked to do so
- C) I am able to complete the project within the foreseen time -frame
- D) all the information given in the framework of this application are accurate and true.

Date: _____

Applicant name

(signature)