



One (1) Position for an Engineer

[Ref # ORZ-0641]

The Biosensors lab (<https://www.gizeligroup.eu/>), headed by Prof. Electra Gizeli, invites applications for an **Engineer with a M.Sc.** to work on 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”, Acronym: **UniHealth** (<https://unihealth-project.eu/>).

Job Description:

“Development of portable bio-medical devices to perform diagnostic tests at the point-of-care”

The work involves the design of novel platforms to monitor the outcome of a diagnostic test using colour indicators (colorimetric assay) or a biosensor (acoustic/electrochemical) or a visual observation (lateral flow strip reader). Results will be recorded via a smart phone or tablet and transferred to a decision-making centre.

About the UniHealth 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 is to develop innovative diagnostic solutions for the broad and specific screening of viruses (Corona, Arbo-, West Nile, Dengue and Zika), all outside a dedicated lab at the point-of-care. The development of small, portable, robust and user-friendly platforms to perform the tests is paramount for the success of the project. Newly developed platforms will be validated with patients’ samples in close collaboration with our clinical partners in Germany, S. Africa, Tunisia and the UK. The consortium includes academic, clinical and industrial partners from Europe, Africa and the USA.

About the new post and lab: The successful applicants will join a **multidisciplinary group** consisting of biologists, chemists, engineers, bio-physicists and material scientists. The new member will be involved in **innovation-driven research** leading to EU-certified solutions for diagnostics. 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.

Required qualifications:

- BSc on engineering (electrical, chemical, mechanical or related)
- MSc on engineering (electrical, chemical, mechanical or related)
- Ability to start within 2-3 months
- Excellent oral and written skills in English language

Desired qualifications/requirements:

- Previous experience on biomedical engineering
- Previous experience on the design of diagnostic or relevant platforms
- Previous experience on the development of mobile apps
- Scientific publications in the above fields



	Evaluation criteria	Maximum score
1.	BSc on engineering (electrical, chemical, mechanical or related)	YES/NO
2.	MSc on engineering (electrical, chemical, mechanical or related)	YES/NO
3.	Previous experience on biomedical engineering (up to 2 yrs 5 points, from 2-6 years 10 points, >10 yrs 20 points)	20
4.	Previous experience on the design of diagnostic or relevant platforms (up to 2 yrs 5 points, from 2-6 years 10 points, >10 yrs 20 points)	20
5.	Scientific publications in the above fields (up to 2: 10 points, from 2-5 20 points)	20
6.	Oral and written skills in the English language (B1 = 5 points, B2 = 10 points, C1 = 15 points, C2 = 20 points)	20
7.	Ability to start in the next 2-3 months	YES / NO
Total score		80

Contract Duration: 6 months with the possibility of extension for another year needs

Salary: 1300-1600€ per month net, depending on age and experience

Envisaged starting date: 1st October 2024

Application submission: Interested applicants should submit their application electronically by **July 25, 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: orz0641@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 your 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)