



One (1) Postdoctoral Researcher Position

[Ref # ORZ-0637]

The Biosensors lab (<http://biosensorslab.biology.uoc.gr/>), headed by Prof. Electra Gizeli, invites applications from a **post-doctoral scientist** for one position 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. The new position is about the:

Development of molecular assays for the detection of emerging pathogens including Corona, Arboviruses and Influenza virus at the point-of-care

Description of the work:

We are looking for a post-doctoral researcher with expertise in **molecular biology** to work on the development of novel molecular assays for the detection of emerging pathogens. This ambitious work involves bioinformatics analysis of genomic databases, assay development in crude samples and use of novel detection methodologies (e.g., CRISPR/Cas, nanoparticles) for application outside a lab. Collaboration with clinical partners will be part of the validation study.

About the UniHealth project:

The project capitalizes on recent advancements in the 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 screening of Corona, Flu and Arbo- viruses as well as specific detection of West Nile virus, Dengue and Zika, all in unprocessed crude samples and outside a dedicated lab. 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. Clinical studies will be performed in Germany, S. Africa, Tunisia and the UK.

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.

Required qualifications:

- BSc in molecular biology, molecular diagnostics, biotechnology, or other relevant areas of biological sciences
- PhD in molecular biology, molecular diagnostics, biotechnology, or other relevant areas of biological sciences
- Excellent oral and written skills in English language
- Publication record in molecular biology or other relevant areas to the project
- Ability to start in the next 2-3 months



Desired qualifications/requirements:

- Previous experience on retrieving and analyzing genomic data from databases (e.g., for primer design of highly heterogeneous populations)
- Previous lab experience with molecular assay development with emphasis on isothermal amplification (LAMP, RPA)

	Evaluation criteria	Maximum score
1.	BSc in molecular biology, molecular diagnostics, biotechnology, or other relevant areas of biological sciences (Score points = grade x 1.5 points)	15
2.	PhD in molecular biology, molecular diagnostics, biotechnology, or other relevant areas of biological sciences	YES/NO
3.	Publication record in molecular biology or other relevant areas to the project (Publication x 1.5 points)	15
4.	Previous experience on retrieving and analysing genomic data from databases (e.g., for primer design of highly heterogeneous populations) (6-12 months = 5 points, 12-24 months = 10 points, 24-36 months = 15 points, >36 months = 25 points)	25
5.	Relevant laboratory experience with isothermal amplification (LAMP, RPA) techniques or other molecular assays (6-12 months = 5 points, 12-24 months = 10 points, 24-36 months = 15 points, >36 months = 25 points)	25
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		100

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

Salary: 1300-1600€ monthly cost net depending on age and experience

Envisaged starting date: 1st September 2024

Application submission: Interested applicants should submit their application electronically by **July 06, 2024**.

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: orz0637@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)