

**One (1) Master Student Position**  
[Ref # ORZ-0536]

The research group of Systems Neuroscience of IMBB under the European Program **ERC-2022-STG**, entitled "Untangling population representations of objects. A closed loop approach to link neural activity to mouse behavior" with acronym "NEURACT" (Program Coordinator Dr. Emmanouil Froudarakis) invites applications for one (1) motivated graduate student to assist with the experiments of the HORIZON, EU-funded, ERC grant.

**About the lab**

The Systems Neuroscience lab at IMBB investigates how cortical circuits interact to form transformation-invariant object representations that can guide behavior.

**About the project:**

This project aims to develop a framework that will allow us to understand the algorithm used by the mouse visual cortex to extract relevant features from complex environments and guide natural behaviors. By starting with ethologically relevant behaviors, we will be able to identify these latent causes, discover how they are represented in the mouse cortical visual system and how in turn these representations affect the behavior of the animals.

**Position Description:**

The graduate student is expected to assist with experiments for the project "NEURACT". In doing so, s(he) is expected to:

- Perform surgeries for implanting head-posts, and injecting viruses in mice
- Daily handle small animals (mice) and train them in behavioral tasks with optogenetic control
- Analyse data with Python

**Required qualifications:**

- BSc in Life Sciences
- Currently enrolled in a graduate program (MSc) in Greece
- Excellent oral and written skills in English and Greek language

**Desired qualifications:**

- Experience with surgery techniques, such as cranial windows and viral injections in mice
- Experience with behavioral training of mice

	<b>Evaluation criteria</b>	<b>Maximum score</b>
1.	BSc in Life Sciences (degree GPA × 1)	10
2.	Experience with surgery techniques in mice (headposts, cranial windows, viral injections, <3 months= 10 points, 3-6 months = 30 points, >6 months = 60 points)	60
3.	Experience with behavioral training of mice (< 3months = 10 points, 3-6 months = 15 points, > 6months = 20 points)	20
4.	Excellent oral and written communication and presentation skills in English and Greek (B1 = 2 points, B2 = 5 points, C1 = 7 points, C2 = 10 points)	10
<b>Total score</b>		<b>100</b>

**Contract Duration:** 9 months with the possibility of extension according to the project needs

**Total budget:** 450 € monthly cost

**Envisaged starting date:** 1 December 2023

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**Application submission:** Interested applicants should submit their application electronically by **21<sup>st</sup> October 2023 @ 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:** [orz0536@imbb.forth.gr](mailto:orz0536@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](mailto: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)