



P.N. 0493-P/143731

10 June 2024

## One (1) PhD Student Position

[Ref # ELD-0635]

The research group of Gene Control Mechanisms of IMBB under the framework of the Action "Basic Research Financing (Horizontal support for all Sciences), National Recovery and Resilience Plan (Greece 2.0)" funded by the Hellenic Foundation for Research and Innovation (HFRI) entitled "Modeling Transcription: an integrated approach to understand cancer-specific gene expression programs", **Acronym:** TRANS-MOD, code: 15276 (P.I.: Partner 2: Matthieu Lavigne), invites **applications for one (1) PhD student**.

### About the lab

The research interests of the Gene Control Mechanisms lab include gene regulation and DNA repair with a hybrid research set-up (molecular/cell biology and Computational Biology/bioinformatics) to investigate transcriptional and chromatin regulation in cancer cells.

### Project Description:

Integrative analyses of "multi-omics" experiments to decipher regulatory links between chromatin components in human/mouse cancer models. In particular, the applicant will develop NGS bioinformatics pipelines and will help the consortium with simulations and ML analyses to understand the role of histone modifications in "transcription addiction" in cancer. The goal is to identify the causative relationships between transcription initiation/elongation/termination, nascent RNA accumulation/degradation, RNAPII pausing, pause-release and H2B-Ub turnover and their functional relationships with chromatin openness and topology.

### Qualifications:

The successful applicant should hold these **Required qualifications**:

- BSc in Biology, mathematical biology or Bioinformatics
- MSc in Biology, mathematical biology or Bioinformatics
- Excellent oral and written skills in English language
- More than 3 years' experience with prior documented experience in Bioinformatics and multi-omics analyses of NGS data in cancer models and at least one publication in a peer reviewed journals in related field.

### Desired qualifications:

- Experience in bulk and single-cell RNA-seq, ChIP-seq, ATAC-seq, HiC analyses
- A very good understanding of molecular/cellular biology principles and of the molecular bases of carcinogenesis

Applicants for the position will be selected on the basis of the following criteria:

	<b>Evaluation criteria</b>	<b>Maximum score</b>
1.	B.Sc. degree grade (Score points = grade)	10
2.	M.S. degree grade (Score points = grade)	10
3.	Relevant dry laboratory experience in Bioinformatics and multi-omics analyses of NGS data in cancer models, ideally with experience in bulk and single-cell RNA-seq, ChIP-seq, ATAC-seq, HiC analyses (6-12 months = 5 points, 12-24 months = 10 points, 24-36 months = 20 points, >36 months = 25 points) Publication in Biology/Bioinformatics in a peer reviewed journals in related field (5 points)	30
4.	Oral and written skills in the English language (B1 = 5 points, B2 = 10 points, C1 = 15 points, C2 = 20 points)	20
5.	Interview* (by videoconference, for the shortlisted candidates >50/70 points)	30
<b>Total score</b>		<b>100</b>

\*The shortlisted candidates will be evaluated on:

- a) Previous research lab experience
- b) Understanding of principles of molecular/cellular biology and carcinogenesis
- c) Candidate motivation

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

**Total budget:** The salary is at the PhD student level and adjusted in accordance with the provisions of the Greek legislation.

**Envisaged starting date:** 1<sup>st</sup> September 2024

**Application submission:** Interested applicants should submit their application electronically by **June 20, 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:** [eld0635@imbb.forth.gr](mailto:eld0635@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)