



P.N. 0754-P/218682  
27 April 2026

## One (1) MSc Student Position

[Ref # PAR-0898]

The research group of Gene Control Mechanisms (GCM lab) under the Program Fondation Santé entitled “Delineating the mechanism promoting expression of genotoxin-induced splicing neoantigens in cancer cells and how they can improve immunotherapy” (Program Coordinator Dr Lavigne) invites applications for one (1) motivated MSc student to assist with: Bioinformatics- WP1.

### About the lab

GCM lab is generally interested in understanding molecular mechanisms ruling RNA transcription and DNA repair and how these processes impact healthy vs pathological (cancer, neurodegeneration, autoimmune diseases) gene expression programs in human cells.

### About the project:

The project aims to delineate the mechanism promoting expression of genotoxin-induced splicing neoantigens in cancer cells and how they can improve immunotherapy. In particular, we will predict/model *in-silico* the effect of transcription elongation speed changes and DNA damage on co-transcriptional splicing using advanced transcriptomics bioinformatic analysis and machine learning methods to reveal stress-induced transcript isoforms and their fate as potential presented neoantigens.

### Job Description:

Candidate will Implement new functions in an under development (co-) transcription simulation tool, analyse structure and number of single molecule transcripts (nRNA) produced at a given time, test splicing efficiency/differences at intron-exon junctions under stress (rMATS, MAJIQ), re-analyse public transcriptomic datasets (RNA-seq) of cancer patients treated with or without ICIs in comparison to simulated results to monitor aberrant alternative splicing, analyse Long-read sequencing nascent RNA data, analyse MS data from immunopeptidome analysis, run neoantigen prediction algorithms (Neodb or TSNAdb) and compare them to immunotherapy target Screening (IRIS) and in house results.

### Required qualifications:

- BSc in Molecular Biology, Cell Biology, Genetics or Bioinformatics
- Must be enrolled as a MSc student in a bioinformatics program at a Greek University
- Oral and written skills in English language
- More than 1 year experience in a molecular biology lab (wet or dry)
- Experience with NGS analyses and Programming languages (Python, R)

### Desired qualifications:

- Experience with basic Statistic analysis and probabilities
- Experience with using Machine Learning Models
- Publication record

	<b>Evaluation criteria</b>	<b>Maximum score</b>
1.	B.Sc. degree grade (Score points = grade x 2)	20
2.	Enrolled MSc student in a bioinformatics program at a Greek University	YES/NO
3.	Relevant laboratory experience (6-12 months = 10 points, 12-24 months = 20 points, 24-36 months = 30 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.	Publication record (1 or more peer-reviewed articles = 10 points)	10
6.	<i>Interview (if total points of previous sections adds up to &gt;60):</i> Assessment of experience with basic Statistic analysis and probabilities (5 points) and with Programming languages (Python, R) (5 points) Assessment of experience with NGS (5 points) and using Machine Learning Models ( 5 points)	20
<b>Total score</b>		<b>100</b>

**Contract Duration:** 6 months with the possibility of extension according to the project needs

**Salary: 500 euros gross (Scholarship)**

**Envisaged starting date: July 1st, 2026**

**Application submission:** Interested applicants should submit their application electronically by **May 08, 2026 @ 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
7. Certificate of enrollment in a MSc Program

**Submission of applications:** [par0898@imbb.forth.gr](mailto:par0898@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.

Throughout the duration of the project, and if there is a need to replace persons selected in accordance with this Call, the replacement will be carried out by selecting - based on score/point allocation - another candidate(s) from the compiled ranking list.

In the event that for any reason the funding provided for the project is interrupted, FORTH-IMBB reserves the right to interrupt the execution of the contract with a special declaration of interruption and without compensation.

FORTH-IMBB does not undertake any commitment to conclude a contract and is entitled to cancel or repeat the procedure without obligation to pay any compensation, excluding any relevant claim by the candidates.

Participation in this call for expressions of interest implies full acceptance of the terms of this.

#### **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)