



Patras, 25.1.2023

Ref. No.: 99375

### Invitation for Expression of Interest:

#### Postdoctoral Research Assignment "Metabolic profiling and systems biology analysis of CAR-T bioreactor processes"

The Institute of Chemical Engineering Sciences, Foundation of Research and Technology - Hellas, (FORTH/ICE-HT) is seeking applicants for one postdoctoral research assignment in the context of the research project "Artificial Intelligence-driven, Decentralized Production for Advanced Therapies in the Hospital, AIDPATH, GA No 101016909", which is implemented under the H2020 Innovation Action (IA) «Digitising and transforming European industry and services: digital innovation hubs and platforms».

#### Job Description

To carry out, under a work or a fixed-term employment contract, development and application of experimental protocols for metabolomic analysis of CAR-T bioreactor systems (medium and CAR-T cells), and assist in the computational analysis of the metabolic profiles, mainly through metabolite identification, quantification, profile normalization and metabolic network reconstruction. The job will involve participation in the meeting of the FORTH/ICE-HT AIDPATH team and also in meetings of the AIDPATH Biostream and smaller teams regarding the quality control part of the CAR-T cell production process, the metabolomic analysis standardization and the computational analysis in collaboration with the AI team.

**Location:** FORTH/ICE-HT, Patras, Greece

**Duration:** up to 6 months, with the potential of renewal or extension according to the needs of the project

**Salary:** up to approximately 2.500 € per month (total cost of the employer, including social security and taxes) depending on the qualifications

**Envisaged starting date:** 1/3/2023

#### Requirements and Qualifications

The applicant should hold undergraduate B.S. or Diploma in Chemical or Biochemical Engineering or Biology or Biochemistry or relevant field, and a PhD diploma in a systems biology or metabolomics subject. Experience with metabolomics analysis methods and protocols of mammalian cell cultures and/or tissues would be strongly favored. Experience with use of metabolic databases and metabolomic data analysis and interpretation would be favored; experience with the bioinformatic analysis of metabolic profiles and the metabolic network reconstruction is preferable. Participation in research projects is required and in European research projects would be favored. Candidates must have good knowledge of the Greek and English (level B2) language.

The evaluation of the candidacies will be based on the following criteria and qualifications:

Qualifications	Weight	Evaluation criteria
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Experience with metabolomics analysis methods and protocols of mammalian cell cultures and/or tissues	45	As demonstrated by PhD thesis (relevance of the PhD thesis: strong relevance: 15 points, medium relevance: 10 points, weak relevance: 7.5 points); participation in relevant research projects (6 points per year up to 30 points as maximum)
Experience with use of metabolic databases and metabolomic data analysis and interpretation through metabolic network reconstruction	25	Demonstrated through publications and/or presentations to international conferences (5 points per publication and 1 point per presentation up to 25 points maximum)
Knowledge of English Language	15	10 points (C1), 15 points (C2)
Interview	15	(a) Background in the objective of the assignment (6 points). (b) Organizational and communication skills (3 points). (c) Team-spirit and self-motivation (3 points). (d) Commitment to achieving the goals (3 points)
<b>TOTAL</b>	<b>100</b>	

### Application Submission

Interested candidates who meet the aforementioned requirements should submit their applications, no later than 6/2/2023, 16:00, by email to Kleanthi Zacharopoulou: [kleanthi@iceht.forth.gr](mailto:kleanthi@iceht.forth.gr).

In order to be considered, the application must include:

- Application letter
- CV with clear description of the techniques possessed by the applicant and the level of experience
- Scanned copies of academic titles and language knowledge certificates
- Statement of research interests
- Copy of PhD thesis
- Copies of the publications in peer-reviewed journals and conference proceedings
- Certificates of previous experience and participation in EU funded projects

**Any application received after the deadline will not be considered for the selection.**

### Selection Procedure

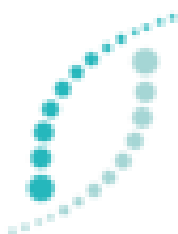
Applications that are received on time will be evaluated by a scientific committee using the criteria mentioned above.

The outcome of the selection will be announced on the website of FORTH/ICE-HT as well as on the website of "DIAVGEIA".

### Selection Announcement

The result of the selection will be announced on the website of: FORTH/ICE-HT as well as on the website of "DIAVGEIA".

Candidates have the right to appeal the selection decision, by addressing their written objection to



the FORTH/ICE-HT Research Secretariat, e-mail: [kleanthi@iceht.forth.gr](mailto:kleanthi@iceht.forth.gr), within five (5) days after the results announcement on the web.

### Contact

For information and questions regarding the application and selection procedure, candidates are asked to contact the FORTH/ICE-HT Research Secretariat, e-mail: [kleanthi@iceht.forth.gr](mailto:kleanthi@iceht.forth.gr), tel.: +30 2610 965278.

For information and questions about the advertised position and the research activity of the group or the Institute, candidates are asked to contact Dr. Maria Klapa, tel: +30 2610 965249, e-mail: [mklapa@iceht.forth.gr](mailto:mklapa@iceht.forth.gr).

### General Protection Data Regulation

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 you have submitted to us. 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.

We inform you that under the Regulation EU/2016/679 you have the rights to be informed about your personal data, access to, rectification and erasure, restrictions of process and objection to as provided by applicable regulation and national laws.

We acknowledge also to you, that you have the right to file a complaint to the national Data Protection Authority. For any further information regarding exercise of your personal data protection rights, you may contact the Data Protection Officer at FORTH at [dpo@admin.forth.gr](mailto:dpo@admin.forth.gr). You have the right to withdraw your application and consent for the processing of your personal data at any time. We inform you that, in this case, FORTH shall destroy such documents and/or supporting documents submitted and shall delete the related personal data.

For FORTH/ICE-HT,

Vasilis Burganos  
Director

