



HELLENIC REPUBLIC
MINISTRY OF DEVELOPMENT & INVESTMENTS
GENERAL SECRETARIAT FOR RESEARCH & INNOVATION



FORTH

FOUNDATION FOR RESEARCH & TECHNOLOGY - HELLAS
INSTITUTE OF CHEMICAL ENGINEERING SCIENCES

Patras, 21.12.2022

Ref. No.: 96977

Invitation for Expression of Interest:

PhD fellowship “Simulation of gas and particulate air pollutants in indoor environments”

The Institute of Chemical Engineering Sciences, Foundation of Research and Technology - Hellas, (FORTH/ICE-HT) is seeking applicants for one PhD candidate position in the context of the research project «Disrupting Noxious Synergies of Indoor Air Pollutants and their Impact in Childhood Health and Wellbeing, using Advanced Intelligent Multisensing and Green Interventions (SynAir-G)», Project: 101057271 — SynAir-G — HORIZON-HLTH-2021-ENVHLTH-02 which is implemented under the HORIZON Research and Innovation Actions.

Job Description

To conduct research as a PhD candidate in the framework of the aforementioned project “SynAir-G”. SynAir-G aims to reveal and quantify synergistic interactions between different pollutants affecting health, from mechanisms to real-life, focusing on the school setting. The project will develop a comprehensive and responsive multipollutant monitoring system, advance environmentally friendly interventions, and disseminate the generated knowledge to relevant stakeholders in accessible and actionable formats. To achieve these objectives, SynAir-G will construct and deploy novel and improved sensors of chemical and biological (allergens, microbes) pollutants. These will be tested in a real-world setting, in participating schools of 5 countries around Europe and eventually combined into a multisensing platform. In the same setting, pollutants will be linked to their sources and eco-friendly air-purifying devices will be assessed. Health outcome data will be obtained from children using a gamified app and prospective monitoring, respecting privacy.

The objective of this job is to perform detailed simulations of gas and particulate air pollutants in indoor environments and to compare them with measurements by both state-of-the-art instrumentation and low-cost sensors.

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

Fellowship: up to 1000 € per month (graduate fellowship) depending on qualifications

Envisaged starting date: 1/2/2023

Requirements and Qualifications

Candidates are required to hold a BS in Chemical or Process Engineering and a MSc in Chemical Engineering. The candidate should have been registered as a PhD candidate in Chemical Engineering.

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

Qualifications	Points	Evaluation criteria
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www.iceht.forth.gr

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GR 265 04 Patras, Greece
Email: admin@iceht.forth.gr

Relevance of MSc thesis with modeling and simulation of photocatalytic processes	40	Strong relevance: 40 points, medium relevance: 15 points, weak relevance: 5 points
BS grade	30	Degree grade X 3 points
MSc grade	30	MSc grade x 3 points
Overall	100	

Application Submission

Interested candidates who meet the aforementioned requirements should submit their applications, no later than 4/1/2023, 16:00, by email to Kleanthi Zacharopoulou: kleanthi@iceht.forth.gr in order to be considered, the application must include:

- Application letter
- CV
- Scanned copies of academic titles
- Certificate of registration as a PhD candidate
- Copy of MSc thesis

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. If necessary, certain candidates will be invited to a personal interview with the committee.

Interview Criteria:

(a) Background in the objective of the assignment (5 points). (b) Organizational and communication skills (5 points). (c) Team-spirit and self-motivation (5 points). (d) Commitment to achieving the goals (5 points)

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.

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, 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, 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 Professor Spyros Pandis: tel: 30 2610 969510, email: spyros@chemeng.upatras.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.

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

