



HELLENIC REPUBLIC  
MINISTRY OF DEVELOPMENT  
GENERAL SECRETARIAT FOR RESEARCH & INNOVATION



**FORTH**

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

Patras, 21.03.2025

Ref. No.: 172684



This project has received funding from the European Union's Horizon Europe (2021-2027) research and innovation programme under grant agreement No 101137639.



### Invitation for Expression of Interest:

**PhD Candidate «Investigation of the interaction between aerosols and clouds: Implication for Atmospheric Dynamics and Health»**

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 "Clouds and climate transitioning to post-fossil aerosol regime (CleanCloud) GA- 101137639 — CleanCloud — HORIZON-CL5-2023-D1-01 / HORIZON-CL5-2023-D1-01-04" which is implemented under the EU- Horizon Europe Research and Innovation Action (2021-2027).

### Job Description

To conduct research under work assignment or fixed-term employment contract in the framework of the aforementioned project "CleanCloud" and in work packages: WP1, WP2, WP3, WP4, WP5, WP10, WP11, WP12, WP13, WP14, WP15, WP16 and WP17. CleanCloud will address the major gaps impeding robust aerosol-cloud interaction (ACI) assessments, improve their representation in current and next generation kilometer-scale climate models, quantify and understand their regional and temporal effects, and how they will evolve in the transition to the post-fossil regime. The research will focus on **studying the role of atmospheric aerosols on cloud formation, atmospheric processes and climate** through a combination of **laboratory experiments, process parameterization and field observations**. Specific emphasis will be given to the droplet formation (CCN) and ice nucleation (INP) properties of dust, bioaerosols, biomass burning, sea salt, their sources, and their effects on cloud formation, regional and global climate. The candidate will work extensively with CCN and INP instrumentation, and instrumentation that characterizes the physical and chemical properties of aerosol (e.g., high- and low-volume aerosol samplers, instruments for measuring the size distribution of sub-micron and supermicron particles, chemical composition) as well other properties of relevance for climate (light absorption) and chemical reactivity (Oxidative potential, OP). This research and the CleanCloud project will strengthen European Research on climate change, significantly contribute to upcoming climate assessments, and benefit society through models that enable improved weather and seasonal predictions.

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

**Duration:** up to 12 months, with the potential of renewal or extension according to the needs of the project and performance

**Salary:** up to approximately 1580 Euros per month, (total cost of the employer, including social security and taxes), depending on qualifications.

**Envisaged starting date:** 01/05/2025



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### Requirements and Qualifications

The candidate is required to hold an Integrated Master's Degree (BSc & MEng) in Chemical Engineering or related field. The candidate should have been registered as a PhD Candidate. Moreover, candidates must be fluent in Greek language and have good knowledge of English (at least level B2) language. A background in atmospheric and/or aerosol science is desirable. Prior aerosol research experience (lab and field work) and familiarity with aerosol instrumentation, measurements of their climate-relevant properties (CCN and INP activity, Brown carbon (BrC)), are highly desirable. Skill in measuring other properties linked to their reactivity (e.g., OP, metals) is also desirable.

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

Qualifications	Weight	Evaluation criteria
Demonstrated lab and field experience in aerosol-related projects	45	15 points for each trimester, up to 45 points
Relevance of diploma thesis to the subject of the position (BrC, OP techniques)	35	Demonstrated through diploma thesis: weak relevance: 7 points, medium relevance: 15 points, strong relevance: 35 points
Diploma grade	20	Grade X 2 points
<b>Overall</b>	<b>100</b>	

### Application Submission

Interested candidates who meet the aforementioned requirements should submit their applications, no later than 3/4/2025, 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
- Scanned copies of academic titles & English language certificate
- Certificate of registration as a PhD candidate
- Copy of diploma thesis
- Employer's certificate and any other official documentation of the required experience

**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".

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.



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**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](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 Professor Athanasios Nenes, tel: +30 2610 965343, e-mail: [athanasios.nenes@epfl.ch](mailto:athanasios.nenes@epfl.ch).

**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,

Theophilos Ioannides  
Director



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