



Patras, 15.06.2022

Ref. No.: 81515

### Invitation for Expression of Interest:

#### PhD fellowship “Simulation of air quality in the urban scale in European cities”

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 “Research Infrastructures Services Reinforcing Air Quality Monitoring Capacities in European Urban & Industrial Areas (RI-URBANS) GA- 101036245 — RI-URBANS — H2020-LC-GD-2020 / H2020-LC-GD-2020-6” which is implemented under the EU-Horizon 2020 Research and Innovation Action.

#### Job Description

To conduct research in the framework of the aforementioned project “RI URBANS”. The main objective of RI URBANS is to develop Service Tools (STs) that will provide novel insights into spatio-temporal variability of air quality parameters, population exposure and air quality health interactions. This will enable to reduce air pollution effects in European cities and industrial hotspots. The project takes on board advanced research-driven Air Quality (AQ) observations at selected European pilot cities. By combining Air Quality Monitoring Networks (AQMN) and RI's advanced science knowledge and innovative technologies, RI-URBANS deploys tools and information systems in the hands of citizens and communities to support decision-making by AQ managers and regulators. These will enhance the Air Quality Monitoring Networks (AQMN) capacity to evaluate, predict and mitigate the impact of air quality AQ on human health.

The objective of this job is to improve our modeling approaches for the simulation of the concentrations and source contributions of gas and particulate pollutants in European cities

**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

**Fellowship:** up to 900 € per month (graduate fellowship)

**Envisaged starting date:** 1/8/2022

#### Requirements and Qualifications

The candidate is required to hold a Diploma in Chemical Engineering. The candidate should have been registered as a PhD candidate. Moreover, 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 | Points | Evaluation criteria |
|----------------|--------|---------------------|
|----------------|--------|---------------------|



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| Research experience in simulation of air pollutant concentrations in urban areas using the chemical transport model PMCAMx | 50         | Duration of research experience: 25 points / year, with a maximum score of 50 points |
| Degree grade   | 50         | Degree grade X 5 points  |
| <b>Overall</b>   | <b>100</b> |  |

### Application Submission

Interested candidates who meet the aforementioned requirements should submit their applications, no later than 30/6/2022, 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
- 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".

### 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 Spyros Pandis: tel: 30 2610 969510, email: [spyros@chemeng.upatras.gr](mailto: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](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

