



## One (1) Master Student position in the project

### “SMILE”

#### Search for Milli-lenses to discriminate between dark matter models

*(Call: ERC-2021-STG, GA 101040021)*

*Funded under HORIZON.1.1 - European Research Council (ERC)*



**Funded by  
the European Union**

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The Institute of Astrophysics (IA) of the Foundation for research and Technology Hellas (FORTH), in the framework of the project SMILE, (Call: ERC-2021-STG, Proposal number: 101040021) funded under HORIZON-EUROPE.1.1. - European Research Council (ERC) is seeking to recruit one (1) Master Student position.

**Title:** Investigating the real nature of a milli-lens candidate through multi-frequency, multi-epochs VLBI data.

#### **Job Description**

The search for milli-lens systems in a VLBI data sample containing almost 14000 radio sources, has produced a list of 40 possible candidates which have been further observed with EVN 5 and 22 GHz observations. The analysis of the latter data has restricted the number of sources that are still considered valid milli-lens candidates. The candidate will analyze the radio VLBA multi-frequency archival data of one of the source candidates and put them in context with the already available datasets and current findings. The goal is to shed light on the real nature of the source.

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### **Required qualifications**

- Candidates need to be fluent in English (level: Proficiency or existing publication in the English language)
- Candidates must be enrolled in an Master Program in Physics.
- Candidates must have background in programming and in astrophysics (formal courses and/or projects)
- Candidates must have documented experience with the analysis of radio interferometric data
  
- running GPA in Physics (40%)
- GPA on Astrophysics Courses (40%)
- Past Publication experience (20%)

**Location:** IA - FORTH, Heraklion Crete GREECE

**Start Date:** 01.01.2024

**Project Duration:** 9 months with possibility of extension according to the needs of the project

**Monthly salary:** 600 euros

### **Application Submission**

Interested candidates who meet the aforementioned requirements are kindly asked to submit their applications, no later than **December 3rd 2023, 23:59 local Greece** time to the address (info@ia.forth.gr), with cc to Dr. Carolina Casadio (ccasadio@ia.forth.gr).

### **In order to be considered, the application must include:**

- Application Form (please download file from the job announcement webpage <https://www.ia.forth.gr/employment-opportunities>)
- Brief CV
- Scanned copies of academic titles

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

**Contact**

For information and questions regarding the application and selection procedure, candidates are asked to contact the secretariat ([info@ia.forth.gr](mailto:info@ia.forth.gr)), tel. +30 2810-394200.

For information and questions about the advertised position and the research activity of the group or the institute, please contact Dr. Carolina Casadio ([ccasadio@ia.forth.gr](mailto:ccasadio@ia.forth.gr)).

**Selection Announcement**

The result of the selection will be announced on the website of IA - FORTH.

Candidates have the right to appeal the selection decision, by addressing their written objection to the IA secretariat within five (5) days since the results announcement on the web. They also have the right to access (a) the files of the candidates as well as (b) the table of candidates' scores (ranking of candidates results). All the above information related to the selection procedure will be available at the secretariat of IA - FORTH in line with the Hellenic Data Protection Authority.

**GDPR**

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.