



**One PhD student and three (3) master student positions in the project
Nanolace
Mask Based Lithography for Fast, Large Scale Pattern Generation
with Nanometer Resolution**

**(Call: H2020-FETOPEN-2018-2019-2020-01, GA 863127)
Funded under RIA, H2020-EU.1.2.1.**



**European
Commission**

**Horizon 2020
European Union funding
for Research & Innovation**

**Ref. 64688
Heraklion 4/11/2021**

The Institute of Electronic Structure and Laser (IESL) of the Foundation for Research and Technology Hellas (FORTH), in the framework of the project Nanolace, (Call: H2020-FETOPEN-2018-2019-2020-01, Grand agreement ID: 863127) which is a Research and Innovation action (RIA) funded under H2020-E.U.1.2.1. – FET Open, is seeking to recruit one PhD student and three (3) master students.

PhD student

MatterWave Optics for Space.

The successful candidate will work on space-based MatterWave Optics. Most notably, he/she will be working on a space-based laser spectroscopy.

Required qualifications

- Experience in experimental laser stabilisation and spectroscopy (25%)
- Experience in Matlab and Python programming (15%)
- Master degree (10%)

Desirable qualifications

- Experience in working in an English-speaking environment (25%)
- Experience in diode laser stabilisation (15%)
- Experience in fiber optics (10%)

Master 1

Cold atom technologies for Space

The successful candidate will work on space-based cold atom technologies. Most notably, he/she will be working on a space-based laser spectroscopy.

Required qualifications

- Demonstrated Experience in design of space-based structures (50%)

Desirable qualifications

- Experience in space Mission and Operations analysis and/or engineering (50%)

Master 2 & 3

The successful applicants will work on building a laser system and optical cavity for the imaging of low atom numbers at high optical resolution. This system will be used for diagnostics of matterwave optics.

Required qualifications

- Undergraduate degree in physics, with grade above 9/10. (20%)
- Enrollment in a M.S. program in physics. (20%)
- Research experience in laser spectroscopy, with CW and pulsed lasers, and optical cavities. (20%)
- Experience in computing, with Mathematica and Labview. (20%)
- Excellent knowledge of the English language. (20%)

Location: IESL-FORTH, Heraklion Crete GREECE

Start Date (earliest): January 1, 2022

Project Duration: 6 - 12 Months with possibility of extension according to the needs of the project

Application Submission

Interested candidates who meet the aforementioned requirements are kindly asked to submit their applications, no later than **November 19, 2021, 23:59 local Greece time** to the address (hr@iesl.forth.gr), with cc to the Scientific Coordinator Dr Wolf von Klitzing (wvk@iesl.forth.gr).

In order to be considered, the application must include:

- Application Form (please download file from the job announcement webpage <https://www.iesl.forth.gr/en/jobs-bids/jobs/job-positions>)
- Brief CV
- Scanned copies of academic titles
- Certificate for enrolment in a master's or PhD programm

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 (hr@iesl.forth.gr), tel. +30 2810-391301.

For information and questions about the advertised position and the research activity of the group or the institute, please contact Dr Wolf von Klitzing (wvk@iesl.forth.gr), tel. +30 2810-391545.

Selection Announcement

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

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

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.