



**One (1) PhD student position in the framework of Public Investments Programs
“ΠΔΕ00710”**

Ref. 18178

Heraklion 6/11/2019

The Institute of Electronic Structure and Laser (IESL) of the Foundation for research and Technology Hellas (FORTH), in the framework of Public Investments Programs “ΠΔΕ00007-10”, is seeking to recruit one (1) PhD student in the non-linear atomic transitions strongly driven by stochastic fields

Job Description

English Recent advances in the generation of electromagnetic radiation with novel properties such as super bunching have opened the route to the exploration of a hitherto unknown territory. As a starting point, we will treat the behavior of a two-level system driven strongly by super bunched radiation, one example of which is provided by squeezed radiation. The populations of the two states can obtained for different types of radiation, such as coherent, chaotic (bunched) and super bunched. Based on our previous work, counter-intuitive behavior is expected and obtained, as for example, the reversal of the photon statistics enhancement, known to exist for weakly driven transitions. The theoretical approach is based on a generalized form of the master equation, known as the positive P representation. When the driving field is sufficiently strong, nonlinear effects are expected to come into play, adding complications to the problem at hand, that is yet to be discovered in detail.

Required qualifications

- BSc in Physical Sciences (40%)
- MSc in relative field (30%)
- Programming skills (20%)

Additional qualifications

- Good knowledge of English language (10%)

Location: IESL-FORTH, Heraklion Crete GREECE

Start Date: January 1, 2019

Project Duration: 12 months with possibility of extension according to the needs of the project

Monthly salary: 750 euro

Application Submission

Interested candidates who meet the aforementioned requirements are kindly asked to submit their applications, no later than the **November 21, 2019, 23:59 local Greece** time to the address (hr@iesl.forth.gr), with cc to Prof. Lambropoulos Panagiotis (labro@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
- University department certificate for enrollment in a PhD program

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 2810-391363.

For information and questions about the advertised position and the research activity of the group or the institute, please contact Prof. Lambropoulos Panagiotis (labro@iesl.forth.gr), tel. (+30) 2810 391384.

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.