Three (3) post-doc researcher positions in the project
Beyond_Anderson
Non-Hermitian Transport in Anderson forbidden land

(Call: ERC-2021-COG, GA 101045135)

Funded under HORIZON-AG - HORIZON Action Grant Budget-Based

Ref. 94533
Heraklion 23/11/2022

The Institute of Electronic Structure and Laser of the Foundation for research and Technology Hellas (IESL -FORTH), in the framework of the project Beyond_Anderson, (Call: ERC-2021-COG, GA 101045135), funded under HORIZON-AG - HORIZON Action Grant Budget-Based, HORIZON Action Grant Budget-Based, is seeking to recruit three (3) post-doc researchers.

Job 1

Theoretical Nonlinear optics of complex topological lattices

Conducting research on the nonlinear optical properties of periodic photonics lattices of waveguides that exhibit topological characteristics. Research experience in theoretical nonlinear optics, solitons, filament formation, topological photonics is desired.

Required qualifications

- PhD in the field related to the subject of the position (nonlinear optics, photonics or similar) (20%)
- Relevant work experience (20%)
- Journal publications on the subjects relevant to the project (10%)
- Excellent knowledge of the English language (10%)

Desirable qualifications

- Strong background in Nonlinear Optics (10%)
- Computational skills (20%)
- Experience in interacting with experimentalists (10%)

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Job 2

Optical sensitivity around nonlinear optical exceptional points

Conducting research on the optical response of coupled waveguides and/or nonlinear lattices close to exceptional points. Research experience in theoretical nonlinear dynamics, chaos, and stability theory is desired.

Job 3

Non-Hermitian physics in optical lattices

Conducting research on the topological properties of non-Hermitian optical systems (waveguides and/of microcavities). Research experience in parity-time symmetry, non-reciprocity breaking, exceptional points, and topological photonics is desired.

Required qualifications

- PhD in the field related to the subject of the position (nonlinear optics, photonics or similar) (20%)
- Relevant work experience (20%)
- Journal publications on the subjects relevant to the project (10%)
- Excellent knowledge of the English language (10%)

Desirable qualifications

- Strong background in Nonlinear Optics, Nonlinear Dynamics and/or Non-Hermitian Physics (10%)
- Computational skills (20%)
- Experience in interacting with experimentalists (10%)

Location: IESL-FORTH, Heraklion Crete GREECE
Start Date (earliest): January 1, 2023
Project Duration: 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 **December 3, 2022, 23:59 local Greece time** to the address (hr@iesl.forth.gr), with cc to the Scientific Responsible, Assoc. Prof. K. Makris (makris@physics.uoc.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)
- Detailed curriculum vitae (CV) of the candidate
- 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 (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, candidates are asked to contact Assoc. Prof. K. Makris (makris@physics.uoc.gr), tel. +30 2810-394227.

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.