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## Post-doctoral position on thermal sensors and microbolometers

ICFO is offering a postdoctoral position to a well-qualified, highly motivated and dynamic young scientist who wishes to enhance his/her scientific career in a friendly and stimulating environment.

The successful candidate will be joining the Functional Optoelectronic Nanomaterials group led by Prof. Dr. Gerasimos Konstantatos which is looking for outstanding, creative and highly motivated researchers to develop highly performant, CMOS compatible, thermal sensor and microbolometer technology. The project aims to revolutionize thermal imaging technologies for automotive, safety and surveillance by developing a new microbolometer technology.

### Eligibility and Conditions

Candidates must hold, at the time of contract initiation, an internationally-recognized Ph.D.-equivalent degree (or evidence of its completion in the nearest future) preferably in Physics or Electrical Engineering, prior to taking up the position.

The candidates should have demonstrated experience and hands-on expertise on the fabrication, characterization and modelling of thermal detectors, ideally microbolometers. In particular, we are looking for candidates with experience in thermal, thermoelectric and electronic simulations and modelling through TCAD software applied to microbolometers as well as cleanroom microfabrication experience of related structures. Successful candidates will also be proficient in optoelectronic characterization of thermal sensors including electronic transport, responsivity, noise, response speed etc. Know-how on read-out electronic circuitry schemes for bolometers will be positively evaluated. Experience on design, optical modelling and fabrication of photonic structures in the LWIR for thermal sensing will be considered a plus.

ICFO is an equal opportunity employer. Candidates are selected exclusively on merit and potential on the basis of submitted application material. No restrictions related to disabilities, citizenship or gender apply to ICFO positions. ICFO abides by the principles of openness, efficiency, transparency, supportiveness, and international comparability as stated in the European Charter for Researchers and the European Code of Conduct for the Recruitment of Researchers.

Salaries for ICFO Postdoctoral positions are assigned by the Selection Committee, based on experience and seniority of the applicant, as well as the assigned tasks and responsibilities within the group. Standard salaries range from a lower level aligned with national Ramon-y-Cajal fellowships to higher levels aligned with Marie Skłodowska-Curie individual fellowships.

The contract is offered for a period of 3 years.

Additionally, a family allowance is also available on request and after corresponding approval for people with family charges in the terms described in the corresponding policy.

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## Application procedure

The formal application should be submitted online via <https://jobs.icfo.eu/?detail=724>.

Suitable candidates are requested to submit:

- Presentation letter with a declaration of interest,
- Curriculum Vitae, including contact details,
- The contact e-mail of two potential referees.

Candidates will be assessed as they apply and the call will remain open until the suitable candidate is identified.

Candidates may contact [jobs@icfo.eu](mailto:jobs@icfo.eu) for formal enquiries regarding the application, as well as address scientific enquiries to [gerasimos.konstantatos@icfo.eu](mailto:gerasimos.konstantatos@icfo.eu).

For update information about the hosting group, please visit <https://www.icfo.eu/research-group/17/sp-nanophotonic-devices/home>.

For updated information about ICFO, please visit <https://www.icfo.eu>.

## Deadline

The call will remain open until 28/04/2023.