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## **Open Ph.D. Positions in Functional Optoelectronic Nanomaterials Group on Infrared Colloidal Quantum Dot Optoelectronics.**

The FON research group at ICFO, led by Prof. Gerasimos Konstantatos is looking for outstanding, highly motivated graduates who wish to conduct their Ph.D. Thesis in a challenging and stimulating environment in the field of colloidal quantum dot optoelectronics. The FON group is having multiple projects supported by an ERC CoG as well as Spanish National Funding Scheme aiming to develop disruptive technologies for light detection and emission in the short-wave and mid-wave infrared including intersubband photodetectors, light emitters and lasers based on solution-processed CMOS compatible quantum dot technology.

We are looking for students who have performed their undergraduate and master's studies in the field of Electrical Engineering or Applied Physics with a strong emphasis on physics of optoelectronic devices, semiconductor physics, photonics or nanoscience and nanotechnology.

The candidates should have:

- Outstanding academic track record with GPA > 3.5/4
- Demonstrated research experience in their undergraduate and master's projects preferably in experimental projects.
- Ideally the candidates' research potential is demonstrated by scientific publications in peer-reviewed journals.
- The candidates should have hands-on research experience in any of the following techniques/fields: microfabrication and nanofabrication of photonic structures, optical modelling/simulation, ultrafast spectroscopy, optoelectronic device fabrication and/or characterization, experience in setting-up optical and/or electronic setups.
- Prior expertise on fabrication and characterization of optoelectronic devices such as photodetectors, light emitting diodes or lasers will be positively evaluated. Expertise of the above using colloidal quantum dots will be considered a plus.

Interested candidates should apply [here](#)

For any further questions potential candidates fulfilling the criteria above are encouraged to contact with Prof. Konstantatos at [gerasimos.konstantatos@icfo.eu](mailto:gerasimos.konstantatos@icfo.eu)