



THERE ARE CURRENTLY A FEW VACANCIES WITHIN THE GROUP.

LOCATION: 2YRS AT BGU(IL) AND 2YRS AT ITMO(RU)

CLOSING DATE: MONDAY 19 JUNE 2017

PHD STUDENTSHIPS – INTEGRATED PHOTONICS AND NANOTECHNOLOGY

This scholarship will fund students for a bursary to cover living expenses (minimum of \$1,545 per month tax-free) and travelling expenses (\$800 per year). For a variety of projects, we seek candidates with knowledge of physics, materials science or engineering, a keen interest in optics and photonic technologies, and a desire to develop advanced integrated photonic devices harnessing computational electromagnetic modelling, device design, and fabrication and experimental demonstration. You will join an enthusiastic multidisciplinary group of students, postdoctoral and academic staff working together on many aspects of cutting-edge integrated photonics research.

The outline of the project:

A joint PhD studentship (BGU-ITMO) is offered at *Light-on-a-Chip* group of Ben-Gurion University to a Ph.D. candidate from the field of photonics. The research will focus on developing new guided wave architectures with novel functionality for emerging applications. The work involves physical analysis, numerical modeling (COMSOL, Lumerical) and experimental optical measurements. Studied structures developed in this project will be used in 'in-line' optical experiments in collaboration with other *Light-on-a-Chip* group members and will serve as the heart of new chips. Accordingly, we are looking for team-players who can work in an interdisciplinary group.

The position is fully funded for 4 year. For more information, see www.alinakarabchevsky.com

ABOUT THE EMPLOYER

The *Light-on-a-Chip* laboratory is dedicated for exploring, designing, fabrication and optical measurements of integrated nanophotonic and plasmonic systems for emerging applications such as sensing, quantum computing, optics telecommunication and more. The group maintains strong international links with EU partners. It is a part of Electrooptical Engineering Unit at Ben-Gurion University (BGU) and Ilse Katz Institute for Nanoscale Science and Technology at BGU. State-of-the-Art facilities at Light-on-a-Chip include equipment for in-line measurements and characterization of guided wave devices for development light based technologies on a chip. The Light-on-a-Chip laboratory possesses necessary office space for accepting new group members and has access to the cleanroom facilities of the Nanocentre at BGU, as well as the state-of-the art integrated photonics devices laboratory and server based computational resources. BGU is one of Israel's leading research universities and among the world leaders in many fields. The University is ranked 46th in the world rankings of universities with sustainable policies.

Applications are invited for a PhD scholarship to be filled by June 2017.

To apply for this job, please contact Dr Alina Karabchevsky, a copy of your CV should be directed by email to: alinak@bgu.ac.il

