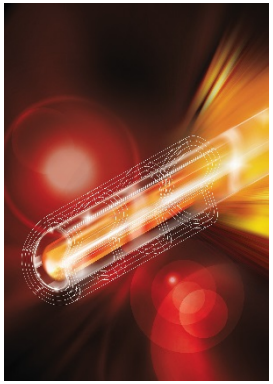
Computational Physics

Post-Doctoral Position

Expertise in <u>any one</u> of the following topics/areas is highly desired

1) Computational Condensed Matter Physics
2) Computational Quantum optics, Quantum trajectories
3) Noise and quantum dynamics of two level atoms
4) Computational Nanophotonics, Green's functions
5) Master equation approaches
6) Quantum noise and/or open quantum systems
7) Monte Carlo simulations
8) Boltzmann Transport equations (electrons or photons)
9) Radiative transfer equation, Disordered Media
10) Simulations of Many-body phenomena
11) Tensor Networks, Matrix Product States
12) Machine learning
13) Computational Imaging



Please send your full CV
and three representative publications to: zjacob@purdue.edu

Prof. Zubin Jacob
Birck Nanotechnology Center
School of Electrical and Computer Engineering
Purdue University, U.S.A.

www.zjresearchgroup.org

PURDUE UNIVERSITY®

About the group

Google Scholar Page: https://scholar.google.ca/citations?user=8FXvN_EAAAAJ&hl=en

Main Research Areas: Casimir forces, quantum nanophotonics, plasmonics, metamaterials, Vacuum fluctuations, open quantum systems

Weblink: www.zjresearchgroup.org
Twitter: twitter.com/zjresearchgroup

Major Breakthrough Papers:

Science (2011) and Science (2012)
Nature Nanotechnology (2016)
Nature Communications (2016)
Optica (2016)
Optica (2014)

Theory and Experiment

- Opportunity to closely interact with experimentalists within the group
- Opportunity to travel to conferences, workshops and collaborate with various theorists around the world

Regular one-on-one meetings with group leader and team meetings

Purdue University

- School of Electrical and Computer Engineering

at Purdue University is consistently ranked among the top 10 in the U.S.

- Purdue Engineering combines the perfect

mix of fundamental science and application and is one of the most prestigious engineering schools in the world

The post-doctoral scholar will have his/her office in **Birck Nanotechnology Center** and interact with world-leading groups in multiple fields of research. The vibrant, dynamic and intellectually stimulating environment is ideal for a balance between theory and experiment.

Living in West-Lafayette or Lafayette, Indiana is affordable and fun. Diverse, multi-cultural student body and 2 hours from Chicago