

RECRUITMENT FOR PROJECT

Applications are invited from the citizens of India for filling up the following temporary position for the sponsored project undertaken in the Department of Electrical Engineering of this Institute. The position is temporary initially for a period of 6 months and tenable only for the duration of the project. Candidates may apply directly to Prof. Ravi Hegde, Electrical Engineering Department via email at hegder@iitgn.ac.in before Feb 22 2015 for the scheduled interview date of Feb 29 2015.

Project Code, Project Title & Funding Agency

SB/S3/EECE/0200/2015: "Towards ultra-thin optical wavefront manipulation devices based on all-dielectric high-efficiency transmissive metasurfaces" (Department of Science & Technology).

Position & Salary: Junior Research Fellow (JRF) (1 post) with a consolidated salary Rs. 25000/- p. m.

Qualification:

Candidates should have ME/M. Tech/MS/MSc in Electrical Engineering/Physics/Applied Physics/Nanotechnology and other related disciplines with NET qualifications.

Additional preferred qualifications:

1. Candidates with prior coursework and/or project experience in the fields of optics, photonics, electromagnetic theory and antennas.
2. Experience in laser spectroscopy and optical bench experiments.
3. Basic knowledge of computational electromagnetics (HFSS, CST, COMSOL).
4. Good programming background (MATLAB, C/C++, python, linux) are preferred.

Job Profile:

1. Modeling and design of optical nanostructures using computational electromagnetics softwares (CST, COMSOL) and open-source software.
2. Fabrication and characterization of photonic nanostructures and metasurfaces.
3. Performing optical characterization experiments.