

Department of Mechanical Engineering

National Institute of Technology Karnataka, Surathkal

Two JRF Positions in PEM Fuel Cell Research

National Institute of Technology Karnataka (NITK) invites applications for two Junior Research Fellowship positions (hereafter 'i' & 'ii') in the area of Computational Solid Mechanics (i); and fabrication of PEMFC Membrane Electrode Assemblies (ii).

Description:

Applications are invited for one Junior Research Fellow (JRF) positions for a DST sponsored project on polymer electrolyte fuel cells (PEFCs). The candidate will work on building advanced computational models where writing user-defined code is necessary (i). The candidate is expected to carry out FE analysis on the computational models (i) (Those who have already applied to this position no need to apply again). The candidate will fabricate MEAs and test in a single cell following certain protocols (ii). At times candidate may be required to visit industry or R&D labs (i & ii).

Essential Qualifications: B.E/B.Tech in Mechanical Engineering with a minimum of 60% aggregate score (6.5/10 CGPA) and M.Tech/M.E in Mechanical Engineering or Materials Engineering with a minimum of 60% aggregate score (6.5/10 CGPA). Those who are appearing for M.Tech/M.E last semester may also apply. Proof of M.Tech/ M.E certificate has to be provided during the time of interview. GATE score is not mandatory however desirable.

Required Skills:

Knowledge of FE analysis and computational programming for development of material models (in Fortran or C) is extremely desirable (i). An advanced degree and prior research experience in the area of solid mechanics/continuum mechanics with some background of conducting experiments would also be a big plus (i & ii). Experience in fuel cell research including MEA fabrication is highly desirable (ii).

Remuneration: Rs 25,000/month

Application Last Date: 14th Nov 2019

How To Apply: In the Cover Letter mention whether you are applying for JRF 'i' or 'ii'

Email your profile along with scanned copy of your certificates and previous work experiences to Dr Poornesh K Koorata (Assistant Professor, Dept of Mechanical Engineering, NITK) to the following e-mail address: **kpkoorata@nitk.edu.in**