Department of Mechanical Engineering

National Institute of Technology Karnataka, Surathkal

JRF Position in Computational Solid Mechanics applied to Fuel Cell Research

National Institute of Technology Karnataka (NITK) invites applications for a JRF position in the area of Solid Mechanics for a research project to investigate the mechanics of fuel cell materials funded by DST.

Description:
Applications are invited for one Junior Research Fellow (JRF) position for a DST/INSPIRE sponsored project on investigating the interface mechanics of fuel cell thin films. The candidate will work on building advanced computational models where writing user-defined code is necessary. The candidate is also expected to carry out FE analysis on the computational models. At times candidate may be required to visit industry or R&D labs.

Duration of Position: Initial appointment for one year, extendable up to 3 years based on performance

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). Applicant must be GATE qualified. 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.

Required Skills:
Knowledge of FE analysis and computational programming for development of material models (in Fortran or C) is extremely desirable. 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. Experience in fuel cell research will be considered positively.

Remuneration: Rs 25,000/month

Application Last Date: 4th Nov 2019

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:

E-mail: kpkoorata@nitk.edu.in