Advertisement for the post of Research Associate for ISRO-funded project: Post 01

Indian Institute of Technology (BHU) Varanasi seeks outstanding candidates for a Research Associate position to conduct research in CFD and Machine Learning of capillary-enhanced filmwise condensation in porous media. A position generally lasts 18 months but can be further renewed, depending on funding. The target start date is December 1, 2022, but applications will be reviewed until the position is filled.

Basic Qualifications:

• A PhD in Chemical/Mechanical/Aerospace Engineering or other closely related disciplines OR ME/M.Tech with 3 years of R&D experience. PhD thesis submitted is also eligible to apply. The candidate with industrial experience is not mandatory to have research publications.

Age: The upper age limit for applying is 35 yrs, relaxable up to 5 yrs in the case of SC/ST/OBC, physically handicapped and women applicants.

Fellowship amount: Each fellow is entitled to a monthly stipend of Rs.47, 000+18% HRA.

Description of tasks and duties:

Develop a CFD model for transient modelling of chemical vapour infiltration of methane using multi-step reactions through multi-physics-based modelling and machine learning.

Required Qualifications:

• Demonstrated experience in the modelling and simulation of condensation in porous media.

• Demonstrated experience with programming using python and Matlab.

• Experience using Comsol multiphysics.

Application Materials:

• A detailed academic CV (including a list of publications).

• A brief statement that highlights the research interests and skills.

• Contact details of two/three references.

How to Apply:

Interested candidates should send the above application materials within 15 days to Dr Vijay Shinde, Department of Chemical Engineering, IIT (BHU), Varanasi 221 005: Email: vijay.che@iitbhu.ac.in

Note: Candidates must send their application in a single PDF file to the email mentioned above. No hard copies of the application will be accepted. No TA/DA will be paid if called for an interview.