

**Office of the Dean Research and Consultancy
Indian Institute of Engineering Science & Technology (IIST), Shibpur
Howrah - 711 103**

Invites application for the position of **Junior Research Fellow (JRF)** for the project on

Project Title: *Development of a geomechanical model for cyclic CO₂ injection and methane release through experimental studies of matrix shrinkage/swelling, mechanical properties, and permeability of coals*

[Sponsoring Authority: Department of Science and Technology, Govt. of India under Mission Innovation]

**Department of Mining Engineering
Indian Institute of Engineering Science & Technology (IIST), Shibpur
Howrah - 711 103**

Ref.: Advt. No. MN 1679, dated 31.05.2021

[University Project Code: DRC/DST/MIN/PD/029/19-20]

No of post – One

Duration: Till December 2022 (may be extended)

Essential Qualification: i) M.E./M.Tech in Mining/Civil/Mechanical Engineering from a recognized university/institute with 60% marks or 6.5 CGPA on a ten-point scale throughout from Class X to the qualifying degree. The M.E./M.Tech program must have been completed through qualification in GATE

OR

ii) B.E./B.Tech in Mining/Civil/Mechanical Engineering from a recognized university/institute with minimum aggregate of 80% marks or CGPA of 8.5 on a ten-point scale throughout from Class X to the qualifying degree

OR

ii) M.Sc in Geology/Geophysics from a recognized university/institute with GATE/NET qualification with 60% marks or 6.5 CGPA on a ten-point scale throughout from Class X to the qualifying degree

Desirable Qualification: Strong grasp in Mechanics and Mathematics

Age limit: Preferably below 30 years

Fellowship: As per DST norms (Rs 31,000 for JRF, Rs 35,000 for SRF). Additionally, House Rent Allowance (@ 8%) may be given if hostel accommodation is not provided.

Mission Innovation (MI) is a global initiative of 24 countries working to accelerate clean energy innovation. Southern Illinois University (SIU), Carbondale, USA is the MI country partner. The selected candidate shall have an opportunity to visit the partner lab at SIU.

Interested candidates are requested to send their detailed CV by email to Prof Pratik Dutta, Principal Investigator of the project (pratik@mining.iists.ac.in) within two weeks from publication of the advertisement.

The selected candidate can enroll for Ph.D. at IIST, Shibpur as per the existing regulations of the institute.

Dean (R & C)

(W. Code DRC-003/21-22)