



भारतीय प्रौद्योगिकी संस्थान इंदौर

खण्डवा रोड, सिमरोल, इंदौर – 453552, भारत

Indian Institute of Technology Indore

Khandwa Road, Simrol, Indore – 453552, India

www.iiti.ac.in

IIT Indore

Date: 31/05/2022

Advertisement for JRF Position in CSIR Funded Project

Applications are invited from motivated and eligible candidates for a JRF position in the CSIR-funded research project “*Continuum finite element models for the mechanical behaviour of the nanostructures considering surface energy effects*”.

- (a) **Brief description of the project:** The objective of the project is to develop finite element models and to investigate the nonlinear behavior of the nanomaterials considering surface energy effects. The project involves computer programming for finite element computations, atomistic simulation through molecular statics, and dynamics to predict surface elastic properties of the nanowires, etc.
- (b) **Eligibility:** M.E/ M.Tech. or equivalent degree in **Design Engineering/Applied Mechanics/Mechanical Engineering** (with at least 60% marks or first class or equivalent). Candidates should have sound knowledge of the strength of materials, mechanical vibrations, and machine design. **GATE qualification is mandatory, but a valid GATE is not required.**
- (c) **Preferred expertise:** Candidates with experience in atomistic simulations using molecular dynamics software and programming capabilities for numerical methods will be given preference.
- (d) **Appointment Rules:** Further details of the appointment of JRF are given in section “3.5 Appointment of JRF/SRF/RA” in the link given below and applicants are advised to read before applying for the position: <https://csirhrdg.res.in/Home/Index/1/Default/2227/63#c>
- (e) **Duration:** The initial appointment will be for one year from the date of appointment and *extendable up to 2 more years depending upon the final decision evaluating committee for the first year of performance*. The successful candidate can also be considered for admission to the Ph.D. program under the fellowship category depending upon the eligibility criteria given by the Department of Mechanical Engineering, IIT Indore.
- (f) **Stipend:** Rs 31,000/- per month.
- (g) **How to Apply:**
 - Interested candidates are requested to apply for the position through Google form: <https://forms.gle/VF7p93V9PXbq4nF66>
 - Last date for submitting the application form is **June 30, 2022**.
 - The CV should include details of academic grades starting from 10th standard onwards with details of the year of passing, institute/university/college, etc., and work experience and nature of work if applicable.
 - Incomplete applications will be rejected.
 - For any technical problem with submitting the application please write to sandeeps@iiti.ac.in
- (h) **Selection process (online interview):** Only shortlisted candidates will be called for an interview. Selected candidates will be intimated by email for an interview. No TA/DA will be paid for appearing in the interview.