



INDIAN INSTITUTE OF TECHNOLOGY BHUBANESWAR

Sponsored Research and Industrial Consultancy (SRIC)

Administrative Building, IIT Bhubaneswar

Argul- 752050, Khordha, Odisha

Tel: +91-0674-713-4832, E-mail: office.sric@iitbbs.ac.in

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इस संस्थान के यांत्रिक विज्ञान विद्यापीठ में किए गए विशुद्ध रूप से समयबद्ध शोध परियोजना में निम्नलिखित कार्यभार के लिए निर्धारित प्रारूप पर आवेदन आमंत्रित किए जाते हैं/ Applications are invited on prescribed format for the following assignment on purely temporary contract basis in time bound research project undertaken in the School of Mechanical Sciences of this Institute.

1. अस्थायी पद का नाम/ Name of the : **Junior Research Fellow – 1 Post**
Temporary Assignment
2. अस्थायी अनुसंधान परियोजना का नाम/ : "Coolant droplets impact analysis on textured cutting tools to
Name of the temporary research improve the spreadability and lubricant retention"
Project
3. फंडिंग एजेंसी का नाम/ Name of the : SERB-DST
Funding Agency
4. पारिश्रमिक/ Emolument : **₹ 37,000/- + HRA@16% per month.**
5. योग्यता और अनुभव/ Qualification & : **As per Annexure-I**
Experiences
6. आयु सीमा/Age Limit : The age of the applicant should be less than 30 years as on last date
of submission of application and candidates belonging to
SC/ST/OBC/PWD will be given age relaxation as per Government
rules.
7. परियोजना की अवधि/ : 3 Years (23.03.2024 to 22.03.2027)
Duration of the project
8. नियुक्ति की अवधि/ Duration : Initially for the period of six months from the date of joining which
Appointment may be further extended based on satisfactory performance and
availability of fund.
9. चयन प्रक्रिया/ Selection Process : The selection process will be based on interview.

Interested eligible persons may apply through online application system on or before **30th May 2024.**

To complete the registration process, please visit the Institute's website: www.iitbbs.ac.in/jobs-iitbbs.php
After entering to the website, select the option '**Recruitment for Research Project Work**' and fill up the online application form after completion of registration process.

Selection to the post will be done through interaction only from among the shortlisted candidates. There is no need to send hard copy of the application. The shortlisted candidates will be intimated through email only for interview.

Sd-

उप कुलसचिव (श्रीक)
Dy. Registrar (SRIC)

ANNEXURE I

A. For the post of JRF: No. of Position – 01 (Mechanical)

Junior Research Fellow (Mechanical)

Educational qualification:

1. B.E/B.Tech in Mechanical Engineering, Manufacturing/Production Engineering, Aerospace Engineering with 65% or 7.00 CGPA with two years of experience **(or)** B.E/B.Tech (first class) in Mechanical Engineering, Manufacturing/ Production Engg., and M.Tech. (first class) in Mechanical Engineering /Manufacturing/Production Engg./ CAD-CAM/ Mechatronics/Cryogenics & Vacuum Technology
2. GATE (ME/ PI) qualified.

Computer proficiency requirement: SolidWorks, CAE tools like Ansys/Abaqus, MATLAB programming,

Desired: Prior knowledge on machining, lubrication, tool wear characterization, mathematical modelling etc.

Age limit: Less than 30 years as on the date of interview and candidates belonging to SC/ST/OBC/PWD will be given age relaxation as per Government rules.

Job description:

1. Good knowledge of machining operations, laser texturing, lubrication, and cutting tools
2. Good knowledge of characterization techniques such as SEM, EDX, XRD, EBSD etc.
3. Capable to handle softwares such as Ansys, Matlab, Abaqus, Design of Experiments etc.
4. Knowledge of basic fluid mechanics is also required
5. Ability to perform literature review and capable of developing new innovative designs setups and material testing.
6. Handling machines/equipment for the fabrication work.
7. Perform variety of roles in Laboratories.
8. Capable of preparing reports and developing research articles.
