



भारतीय प्रौद्योगिकी संस्थान भिलाई

जिला-दुर्ग, छत्तीसगढ़-491002

Indian Institute of Technology, Bhilai

Dist.- Durg, Chhattisgarh - 491002

Website: [www.iitbhilai.ac.in](http://www.iitbhilai.ac.in)

**Advertisement for the post of Junior Research Fellow (JRF) position in a SERB Funded Research Project**

Applications are invited from Indian nationals for the Junior Research Fellow (JRF) position in a SERB funded research project with the following details:

**Title of the Project:** A Hybrid Ultra-Thin Vapor Chamber Containing Wettability Patterned Condenser Surface for Thermal Management in Mobile Devices

**Principal Investigator:**

Dr. Nagesh Devidas Patil, Assistant Professor, Room 404A, ED2 Building, Department of Mechanical Engineering, Indian Institute of Technology Bhilai, Bhilai, Chhattisgarh- 491002.

(Mob: +91-8879802049; email: [nageshpatil@iitbhilai.ac.in](mailto:nageshpatil@iitbhilai.ac.in);

web: <https://sites.google.com/site/nageshpatil22/home>)

**Name of the position:** Junior Research Fellow (JRF) **Number of Positions:** 01

**Essential qualifications:**

1. BE/BTech (or equivalent Degree) in Mechanical/Energy Science Engg./Chemical Engineering from a recognized institute/university or statutory body OR equivalent degree with a minimum of 60% aggregate score (6.5 grade points on a scale of 10); For SC/ST category, the candidate must have secured a minimum of 55% aggregate score (6.0 grade points on a scale of 10).
2. Should have qualified through GATE or CSIR-UGC NET

**Desirable:**

Preference will be given to the candidates having experience relevant to the project. Candidates with **one or more of the followings** skills are strongly encouraged to apply:

1. Experience in fluid flow and heat transfer experiments.
2. Numerical simulation experience in ANSYS-FLUENT or COMSOL or Coding skills in MATLAB/C++.
3. Experience in using scientific equipment such as High-speed cameras, Infra-red Camera, Spin Coating on glass-like surfaces, microfabrication techniques (Lithography, micro-machining, etc).

**Age limit:** Not more than 30 years

**Salary:**

For the first two years: Rs. 37,000/- per month + HRA

In the third year: Rs. 42,000/- per month + HRA

The fellowship will be governed as per the SERB rule and the availability of the fund.



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### Duration:

Three years or till the completion of the project, whichever is earlier. The initial appointment of the JRF is for the first year; subsequent renewal may take place subject to the annual performance review and the availability of the fund.

### How to apply:

Eligible and interested candidates are encouraged to send their application as per the prescribed format on the website along with copies of all supporting documents and a resume as a single PDF file through **ONLY email to the PI** ([nageshpatil@iitbhilai.ac.in](mailto:nageshpatil@iitbhilai.ac.in)) mentioning the subject as '**Application for JRF under SERB sponsored project**' within **May 05, 2024 (Sunday)**. The positions are available immediately.

**Due date:** The application must reach the PI, Dr. Nagesh Devidas Patil ([nageshpatil@iitbhilai.ac.in](mailto:nageshpatil@iitbhilai.ac.in)), by **May 05, 2024 (Sunday)**.

**Interview:** The date of the **online interview will be May 09, 2024 (Thursday)**.

**Note:** The candidate selected for this position can register for the Ph.D. program in the Department of Mechanical Engineering at IIT Bhilai. However, for admission to the Ph.D. program at IIT Bhilai, the candidate must meet specific eligibility requirements and qualify for the written examination and interview.

### Terms & Conditions:

- i) No TA/DA will be provided to the candidate for the online interview.
- ii) Mere fulfilment of the qualifications and experience requirement does not entitle the candidate to be called for an online interview. Based on the number of applications received, shortlisting may be done, and only shortlisted candidates will be called for the online interview and will be intimated through email.
- iii) The decision of the selection committee will be final.
- iv) The Institute reserves the right to cancel the recruitment without assigning any reason.
- v) The appointment of the candidate will be governed by the terms and conditions of the Institute/ SERB that are particularly applicable to the said project as and when required.
- vi) The selected candidate will have to join the JRF position immediately upon receipt of the offer letter. The initial offer will be for one year and may be extendable up to three years, depending upon the availability of the funds.
- vii) The fellowship may be terminated with a 30-day notice before completion of the tenure if performance to date is not deemed satisfactory.



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## Application Form for the Junior Research Fellow (JRF) Recruitment in a SERB funded research project at IIT Bhilai

| Personal Details          |  |                           |  |
|---------------------------|--|---------------------------|--|
| Name                      |  |                           | Paste a recent passport-size photograph here |
| Date of Birth (DD/MM/YY)  |  | Gender<br>Male/Female     |  |
| Marital Status (DD/MM/YY) |  | Category<br>Gen/SC/ST/OBC |  |
| Nationality               |  |                           |  |
| Mailing address           |  | Permanent Address         |  |
|                           |  |                           |  |
| Mobile/phone number       |  |                           |  |
| Email                     |  |                           |  |
| Aadhaar/Passport No.      |  |                           |  |



वसुधैव कुटुम्बकम्  
ONE EARTH • ONE FAMILY • ONE FUTURE

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| Education Details (starting from matriculation) |        |            |                |                    |                 |                       |          |
|---|--------|------------|----------------|--------------------|-----------------|-----------------------|----------|
| S. No.  | Degree | Discipline | Univ./ College | Regular/ Part time | Year of Passing | % of Marks/ CGPA/ CPI | Division |
|   |        |            |                |                    |                 |                       |          |
|   |        |            |                |                    |                 |                       |          |
|   |        |            |                |                    |                 |                       |          |
|   |        |            |                |                    |                 |                       |          |

| Qualifying Examinations (CSIR/NET/GATE/ Others) |        |      |             |            |                |
|---|--------|------|-------------|------------|----------------|
| Examination                                     | Branch | Year | Valid Up to | Percentile | All India Rank |
|   |        |      |             |            |                |
|   |        |      |             |            |                |

| Professional Experience (Research/Industrial/Teaching/Others) |             |          |    |  |
|---|-------------|----------|----|--|
| Name of Organization  | Designation | Duration |    | Nature of work<br>(attach separate sheet if necessary) |
|   |             | From     | To |  |
|   |             |          |    |  |
|   |             |          |    |  |
|   |             |          |    |  |