



# Birla Institute of Technology & Science, Pilani

## Pilani Campus

### CALL FOR JUNIOR RESEARCH FELLOW POSITION AT BITS PILANI

**Date: 15-09-2023**

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| <b>About:</b> Applications are invited from suitable candidates for a <b>Research Fellow</b> position to join our multidisciplinary team to work on the following project sponsored by BITS, Pilani, in the Department of Chemical Engineering, BITS-Pilani, Pilani Campus, Rajasthan, as per the following details: |   |
| <b>Position:</b>   | <b>Research Fellow</b>  |
| <b>Number of Vacancy:</b>  | <b>01</b>   |
| <b>Project Title:</b>  | <b>“Development of Covalent Organic Polymer Sensors for Molecular Decoding of Breath VOCs through Fluorescence Image Processing”</b> under CDRF scheme of BITS Pilani.  |
| <b>Investigators:</b>  | Prof. Arnab Hazra, Dept. of Electrical & Electronics Engineering<br>Prof. Sarbani Ghosh, Dept. of Chemical Engineering<br>Prof. Avik Pati, Dept. of Chemistry<br>Prof. Asish Bera, Dept. of Computer Science and Information Systems  |
| <b>Project Tenure:</b>   | <b>2 years (24 months) with possibility of extension to enroll to the Institute Ph.D. program.</b>  |
| <b>Responsibility:</b>   | <ul style="list-style-type: none"><li>• Running Quantum Mechanical Calculations (DFT)</li><li>• Synthesis of the desired molecules, characterizations, device fabrication and testing</li><li>• Image Processing using Machine Learning algorithms</li><li>• Writing papers and presenting at the conference.</li></ul>   |
| <b>Essential Qualification and specializations:</b>  | <ul style="list-style-type: none"><li>• ME/M.Tech/B.E/B.Tech in Chemical Engineering/ Material Science Engineering/Nanoscience &amp; Nanotechnology or relevant area<br/>Or MSc in Chemistry<br/>(with at least 60% marks)</li><li>• Self-motivated, keen to learn new methods, ability to solve problems independently</li><li>• Good proficiency in technical writing</li></ul> |
| <b>Desirable Qualification (But Not Mandatory)</b>   | <ul style="list-style-type: none"><li>• Experience in material synthesis</li><li>• Experience in DFT/MD simulations</li><li>• Knowledge of programming language, e.g., MATLAB, python, C/C++</li><li>• Experience in image processing</li></ul>   |
| <b>Fellowship:</b>   | Rs. 37000-Rs. 42000 per month (based on the qualification, performance and the year of PhD)   |
| <b>Start date:</b>   | Immediately available   |
| <b>Registration for PhD:</b>   | Selected candidates will be given the opportunity for a full time PhD program at BITS, Pilani as per the institute norms. ( For more information visit <a href="https://www.bitsadmission.com/phdmain.aspx">https://www.bitsadmission.com/phdmain.aspx</a> )  |

#### **How to Apply:**

Interested candidates should apply of this advertisement, by filling out this form <https://forms.gle/nEemgLkeFozUtUft6>. Shortlisted candidates will be informed for the interview. Mere possession of minimum qualification does not guarantee an invitation to the interview. Candidates will be shortlisted based on their merit and as per the requirement of the project. Only shortlisted candidates will be called for the interview (*preferably via online mode*). If required, the candidates should make their own arrangements for their stay at Pilani and no TA/DA will be paid for attending the interview.

**Contact email:** [sarbani.ghosh@pilani.bits-pilani.ac.in](mailto:sarbani.ghosh@pilani.bits-pilani.ac.in)

**Application Deadline: 30-09-2023**

