

Recruitment Advt. No: IITDH/R&D/BioCyTiH/RRM/2022-23

Date: 03.04.2023

### Application details

IIT Dharwad, as spoke institute to the BITS BioCyTiH foundation, received funding under the project titled “Farms of Future” to deliver technological solutions to some of the agricultural problems. Under this project, the following subproject is recruiting the manpower. The details of the project and the eligibility for the manpower has been provided below:

**Subproject title:** Development of one-dimensional and two-dimensional organic polymers based chemiresistive sensors for plant emitted volatiles

**Project description:** The project aims to develop organic polymer based resistive sensors for the sensing of the volatile emitted by the plants. In this regard, several semiconducting organic polymers will be judiciously designed and developed and thoroughly characterized. The materials will be used as the sensing layers towards various analytes.

| S. No | Particulars             | Details  |
|-------|-------------------------|--|
| 1.    | Name of the Position    | Senior Research Fellow (SRF) or junior research fellow (JRF)<br>Or Project Associate-1 (PA-1) (On Contract)  |
| 2.    | Number of Positions     | 1  |
| 3.    | Essential Qualification | <b>For SRF:</b> 1) M.Sc. degree in Chemistry with a specialization in Organic/Inorganic /physical with GATE/CSIR-UGC NET (LS).<br>2) Minimum two years of research experience<br><br><b>For JRF:</b> M.Sc. degree in Chemistry with a specialization in Organic/Inorganic /physical with GATE/CSIR-UGC NET (LS).<br><br><b>For PA-1:</b> M.Sc. degree in Chemistry with a specialization in Organic/Inorganic /physical chemistry. |
| 4.    | Desirable Qualification | Strong knowledge in organic chemistry and the synthesis of organic p-conjugate compounds and polymers<br>Knowledge in organic and molecular spectroscopy   |
| 5.    | Consolidated Emoluments | <b>For SRF:</b> 35,000/- + 16% HRA<br><b>For JRF:</b> 31,000/- + 16% HRA<br><b>For JRF:</b> 25,000/- + 16% HRA<br>Accommodation can be given based on the availability in the hostel.<br>If the hostel accommodation is given, then HRA will not be applicable.  |
| 6     | Duration of the tenure  | Maximum 2 years  |
| 7.    | Tenure of appointment   | The appointment for the above contractual position will be initially for a period of 01 years, which may be extended or curtailed, based on the performance of the candidate, availability of funds in the project, requirement in the project. The appointment will be co-terminus with the project.  |

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|---|------------------------|--|
| 8.  | Age Limit              | Not exceeding 30 years as on the date of selection process.  |
| 9   | Job Description        | <p>Performing research literature review and understanding the research challenges associated with the project.</p> <ul style="list-style-type: none"> <li>● Synthesis and characterization of the organic polymers for sensing volatile organic compounds emitted by the plants.</li> <li>● Formulating research problems in the realm of organic polymer based sensors</li> <li>● Documenting research output including analysis, maintaining records, drafting technical/progress reports and papers.</li> <li>● Presentation of work at conferences, at internal and external seminars, colloquia and workshops.</li> <li>● Any administrative activities related to the project.</li> </ul> |
| 10  | Application link       | <a href="https://www.jotform.com/220951115443448">https://www.jotform.com/220951115443448</a>  |
| 11  | Application start date | 3rd April 2023   |
| 12  | Application end date   | 17th April 2023  |
| For any queries on the application process please write to rajesh@iitdh.ac.in or ruma@iitdh.ac.in |                        |  |