



**Indian Institute of Technology (Indian School of Mines), Dhanbad**  
The Office of Dean, Research & Development

Sanction No and Date: CRG/2022/000831, Dated:06/02/2023	<b>IIT (ISM) Dhanbad Project No.</b> DST(SERB)(377)/2022-2023/988/ECE	Date 27/02/2023
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**Applications are invited for the position of Junior Research Fellow (JRF)** in SERB, DST Govt. of India sponsored project. The details are given below:

<b>Position</b>	Junior Research Fellow (JRF)
<b>Number of Position (s)</b>	1
<b>Title of The Project</b>	Design and Development of Substrate Integrated Waveguide based Self-multiplexing Antennas for 5G communication systems
<b>Principal Investigator</b>	Prof. Santanu Dwari
<b>Tenure of Project</b>	Three years or till the end of project, whichever is earlier
<b>Job Description (in maximum of 100 words)</b>	The project aims to design and develop of Substrate Integrated Waveguide based Self-multiplexing Antennas for 5G communication systems. Specifically, the project has the following goals: 1) Design and analysis of the single element SIW based self-diplexing and self- triplexing antenna. 2) Design of 4× 4 SIW based self-diplexing and self- triplexing antenna array. 3) Simulation of the structure. 4) Fabrication and experimental verification.
<b>Essential Qualification</b>	B.E/B.Tech or M.E./MTech in Electronics & Communication Engineering or related field with good academic background. The candidate should be either qualified in GATE or CSIR/UGC NET or any other National level examination conducted by the Central Government Departments and their Agencies and Institutions.
<b>Desirable Qualification</b>	The candidate should have basic knowledge of RF & Microwave Engineering and Antenna. Furthermore, the candidate should be good in ANSYS HFSS, CST and MATLAB.
<b>Age and Relaxation (if any)</b>	The upper age limit is 35 years at the time of appointment
<b>Fellowship</b>	<b>Rs. 31,000/- + HRA</b> for the 1 <sup>st</sup> and 2 <sup>nd</sup> Year, and <b>Rs. 35,000/- + HRA</b> for 3 <sup>rd</sup> Year
<b>Last Date &amp; Time</b>	Interested candidate are requested to send application with detailed Bio-data and self-attested copies of educational qualifications, age proof, experience certificate(s), GATE certificate (if qualified) and valid cast certificate (if applicable) as soft copy in E-mail (santanu@iitism.ac.in) on or before March 14, 2023.

Shortlisted candidates will be informed on the date of interview. Mere possession of minimum qualification does not guarantee an invitation to the interview. Candidates will be short listed based on their merit and as per the requirement of the project. All candidates should make their own arrangements for their stay at Dhanbad, if required. No TA/DA will be paid to attend the interview.

  
(Signature of PI)