



राष्ट्रीय प्रौद्योगिकी संस्थान, दुर्गापुर  
NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR  
MAHATMA GANDHI AVENUE, DURGAPUR-713209  
West Bengal, INDIA, [www.nitdgp.ac.in](http://www.nitdgp.ac.in) \\  
(An Autonomous Institution of the Govt. of India under MHRD)

Dated: 17/11/2021

**Advertisement for the post of Junior Research Fellow (JRF)**

**Project Title:** Photo-Therm: Solar Converted Thermal Energy Harvesting Mangrove and Composite Layer Mechanistic Photo-thermal Material in Interfacial Water Evaporator-Collector Desalination System to Potable Water

**Funding Agent:** DST, Government of India.

**Duration:** 3 years

**Project Summary:** Seawater can be an alternative source for the portable water, but the restriction is its huge salinity. Reverse osmosis based is well established but it's little bit expensive. So to overcome this issue we plan to develop an alternative energy efficient desalination technique utilizing solar radiation. So the project is dealt with development of photo thermal materials, coating of the material and wettability study.

**Qualification for JRF:**

Name and Number of the post	Eligibility Criteria	Duration	Fellowship
Junior Research Fellow (JRF)  No of the Post: One (01)	<b>Essential:</b> M.E./M.Tech/B. Tech-M. Tech Dual degree in Chemical Engineering/ Chemical Technology/ Polymer Technology/ Nanotechnology/ Nanoscience/ Plastic Engg./Tech/ Ceramic Tech/Engg/Material Science and any other relevant discipline with minimum 6.5 CGPA or 60% marks from any recognized Institute/ University.  OR MSc. in Chemistry/Physics and any other relevant discipline with valid NET/GATE score and with minimum 6.5 CGPA or 60% marks from any recognized Institute / University. Any other National level examinations conducted by Central Govt. Departments and their agencies and institutions such as DST, DBT, IIT, IISc. IISER etc. will also considered.  <b>Desirable:</b> • Inclination to work in interfacial engineering related problems.	One year. Extendable up to approximately 3 years, subject to funding and satisfactory performance	Rs. 31,000/- +HRA per month for the fellowship period

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	<ul style="list-style-type: none"><li>• Familiarity in reading and implementing research papers.</li><li>• Proficiency in English for scientific writing.</li></ul>		
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**How to Apply:**

The eligible and interested candidates are encouraged to apply for the Online interview by sending a cover letter and their complete bio-data, mentioning relevant research experience (if any) to the Principal Investigator e-mail ID ([rajib.ghoshchaudhuri@che.nitdgp.ac.in](mailto:rajib.ghoshchaudhuri@che.nitdgp.ac.in)) and subject of the mail should mention "Application for the post of JRF in SERD 2019", on or before **28<sup>th</sup> November, 2021**.

**Mode of Selection:**

The short-listed candidates will be notified through email and the selection interview will be conducted through online.

**Terms and Conditions:**

1. Applications reaching after specified time may not ordinarily be entertained.
2. Canvassing in any form will disqualify the candidature.
3. The selected candidate is expected to join immediately after recruitment.
4. The selected candidate may have to work outside the normal working hours and normal working days without additional incentives.
5. Selected candidate will produce the original ID proof, the original mark-sheets, certificates etc. at the time of joining, otherwise his/her candidature will be rejected.
6. Other terms and condition will be as per those of NIT Durgapur.

*Rajib Ghosh Chaudhuri*  
17/11/2021

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