



**INDIAN INSTITUTE OF TECHNOLOGY PATNA**  
**BIHTA PATNA-801106**  
**RESEARCH & DEVELOPMENT (R&D) UNIT**

**ADVERTISEMENT NO: R&D/757/DRSP/262**

**DATED: 13.02.2023**

**Project No.: R&D/SP/MME/DRSP/2022-23/757**

Applications are invited in the prescribed format only for a research project funded JRF position in the Department of Metallurgical and Materials Engineering, IIT Patna.

1. (a) Name of the temporary assignment : Junior Research Fellow.  
(b) Number of Post : One  
(c) Duration of Post : One year initially followed by extension of two years subject to satisfactory performance.
2. Name of the temporary research project : Development of Robust and Superhydrophobic Plasma Sprayed Graphene reinforced TiAl Intermetallic membranes with improved Desalination in Membrane Distillation
3. Name of the sponsoring Agency: Department of science and Technology (DST)
4. Consolidated Fellowship: Rs. 31000/+ (@8% HRA) Rs. 2480/=-33,480 Rs. for first two years followed by Rs. 35,000/- + (@8% HRA) Rs. 2800/=-37,800 Rs (subject to satisfactory performance)
5. Qualifications & Experience:
  - a) For candidates with M.Tech./ME/MS as qualifying degree in Metallurgy, Ceramic, Polymer/Plastic, Mechanical, Chemical Technology, Rubber Technology, Nanotechnology, Materials Science/Engineering, Steel Technology, Process Metallurgy, Welding Engineering, Industrial Metallurgy, Foundry and forge, Production engineering, Surface Science/Engineering: first class (minimum 65% marks or 7.0 CPI) in M.Tech./ME/MS with GATE/NET qualifications and first class (minimum 60% marks or 6.5 CPI) in B.Tech./BE, 12<sup>th</sup> and 10<sup>th</sup> class.
  - b) For candidates with B. Tech./BE as qualifying degree in the following selected disciplines (Metallurgy, Ceramic, Polymer/Plastic, Mechanical, Chemical Technology, Nanotechnology, Materials Science/Engineering, Physics and Chemistry, Foundry and forge, Production engineering), 75% marks or 8.0 CPI in B.Tech./BE from institutes other than IITs/IISc and 7.0 CPI in B.Tech. from IITs and IISc with valid GATE score and first class (minimum 60% marks or 6.5 CPI) in 12<sup>th</sup> and 10<sup>th</sup> class.
  - c) The age should not exceed 28 years for a candidate with BE/B.Tech/M.Sc. degree as the highest qualification and 32 years for a candidate with ME/M.Tech/MS degree as the highest qualification.
  - d) Relaxations for SC/ST/OBC/women/PD will be given as per the GoI rules.

Working/research experience in the field of Ceramic/metal composites, Nanocomposites, Environmental engineering, Composite fabrication techniques, Microstructure and Phase analysis, Mechanical and Tribological characterization will be given preference.



**INDIAN INSTITUTE OF TECHNOLOGY PATNA**  
**BIHTA PATNA-801106**  
**RESEARCH & DEVELOPMENT (R&D) UNIT**

Interested and eligible candidates may send their applications with below annexure form with subject line JRF position-DRSP-7757 to principle investigator ([anup@iitp.ac.in](mailto:anup@iitp.ac.in)) by Feb. 27, 2023. Shortlisted candidates will have the **On-line INTERVIEW** on 06/03/2023 at 10:AM **am** at Dr. Anup Kumar Keshri, Dept. of Metallurgical and Materials Engineering, IIT Patna, Bihta, Patna – 801106 with updated resume along with the original copies of all supporting documents (certificates, mark-sheets, and degrees).

For any query contact Investigator(s) : **Dr. Anup Kumar Keshri, Dept. of Metallurgical and Materials Engineering, IIT Patna, Emails: [anup@iitp.ac.in](mailto:anup@iitp.ac.in) Tel.: 0612-3028184.**

**Deputy Registrar**

Copy to:

1. Associate Dean, R&D, IIT Patna
2. Advertisement file
3. Project file



**INDIAN INSTITUTE OF TECHNOLOGY PATNA**  
**BIHTA PATNA-801106**  
**RESEARCH & DEVELOPMENT (R&D) UNIT**

ADVERTISEMENT NO: R&D/757/DRSP/262

DATED: 13.02.2023

PROJECT CODE: R&D/SP/MME/DRSP/2022-23/757

**FORMAT OF APPLICATION FOR JUNIOR RESEARCH FELLOW**

<b>Name &amp; Address</b>  <b>Including email id and Phone no. (for Correspondence)</b>	<b>Category</b>  (GEN/OBC/SC/ST/ PD)	<b>DOB</b>  dd/ mm/yy	<b>Professional Exam. (GATE/CSIR- NET, etc) &amp; Validity</b>
<b>NAME IN CAPITAL</b> Address:     Phone: Email:			
<b>Educational Qualification</b>			
<b>Institute/ Board</b>	<b>Exam Passed</b>	<b>Year of Passing</b>	<b>% of Marks/CPI</b>
	10 <sup>th</sup> Class		
	12 <sup>th</sup> Class		
	B.Sc or equivalent		
	M.Sc or equivalent		

<b>Qualifying degree</b>	<b>Degree/ major/Specialization</b>
B.Sc.	
M.Sc.	
Others	

Signature of applicant

Date:  
Place: