



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

Sanction No and Date: IMRC/AISTDF /R&D/P-14/2018 dated 26.11.18	<b>IIT (ISM) Project No. DST-SERB (210)/2018-2019/609/Mechanical Engg.</b>	Date: 29.11.2018
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**JRF position under (ASEAN-India Science & Technology Development Fund)  
ASEAN-India Collaborative R&D Project**

Applications are invited under the sponsored project. The details of the project are as under:

<b>Position</b>	<b>JRF (junior research fellow)</b>
<b>Number of Position (s)</b>	<b>One</b>
<b>Title of The Project</b>	Development of Eco-friendly Magnesium Alloy Nanocomposites for Structural and Biomedical Applications
<b>Principal Investigator</b>	<b>Ashis Mallick</b> Department of Mechanical Engineering Indian Institute of Technology (ISM) Dhanbad, Dhanbad -826004 (E-mail: mallick@iitism.ac.in; 123.ashis@gmail.com)
<b>Tenure of Project</b>	<b>Two years</b>
<b>Job Description (in maximum of 100 words)</b>	Research activities will be focused on synthesis and characterization of Eco-friendly Magnesium Alloy Nanocomposites materials. Physical-metallurgical substances for developing Metal Matrix Composites (MMC) will be investigated, as well as the possibilities for maintaining its stability and mechanical properties related to it even at elevated temperatures. The scope of work will also include the development of a plasticity model for deformation behaviour of the materials. The selected candidate will visit the collaborators at NUS, Singapore and UKM, Malaysia in every year. <b>TA/DA</b> will paid for the visits as per requirement complying the guidelines of the project.
<b>PhD Enrolment</b>	The selected candidate may be allowed to enroll for Ph.D. programme as per institute rules.
<b>Essential Qualification</b>	B.Tech degree in Mechanical Engineering and M.Tech./M.E. with 1st class or equivalent CGPA with GATE qualification. Candidate pursuing M.Tech. or M.E. in 2 <sup>nd</sup> Year may also apply.
<b>Desirable Qualification</b>	Preference will be given to the candidates M.Tech or M.E in Design / Material Science specialization.
<b>Age and Relaxation (if any)</b>	Maximum 28 years as on 10.12.18. Upper age limit may be relaxed as per GOI rules.
<b>Fellowship</b>	<b>25000 + HRA (as per rule) / month</b>
<b>Last Date &amp; Time for application submission</b>	Interested and eligible candidates are requested to send a copy of their CV to the Principal Investigator on or before <b>December 10, 2018</b> .
Shortlisted candidates will be informed the date of interview through <b>e-mail</b> only. 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.	