

Indian Institute of Technology Hyderabad Kandi, Sangareddy-502285, Telangana, INDIA

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Date of Advertisement: March 27th, 2022

Subject:

Advertisement for the post of Junior Senior Research Fellow (JRF) (No. of Post: One) for three year

Applications are invited from Indian nationals with good academic background to attend the online interview for the post of **Junior Research Fellow** position (No. of Post: One) as a part of SERB project. Details are given below:

Name of the Post	Junior Research Fellow
No. of Post	One
Project Title	High Entropy Carbide Based Cutting Tool Inserts
Brief Description of work	CNC and Lath machines use variety of tool inserts. This project is on fabrication of cutting tool inserts through powder metallurgy processing. Multicomponent carbides to be used as a base material and suitable multicomponent alloy, such as high entropy alloys, etc. to be used as a binder phase for high density sintering. Work involves processing of metals and ceramic powders, mechanical alloying, compaction, sintering, heat treatments, phases and microstructure characterization, metallographic sample preparations, testing of mechanical and other properties, etc.
Period of Appointment	The appointment will be initially for a period of Eleven months and based on performance, the appointment could be extended yearly basis (based on satisfactory performance) till the end of the project (3 years). The selected candidates will be eligible for Ph. D registration if they satisfy all the criteria of IIT Hyderabad.
Remuneration	INR 31000/- pm + HRA (as per norms)
Essential Qualifications	M.Tech./ M.E./ or equivalent degree in Metallurgical Engineering/ Materials Science/ Ceramics Engineering/ Mechanical Engineering/ Manufacturing/ Production Engineering or related areas. Candidate having MTech/ME degrees should have previously qualified GATE once.
	OR
	B.Tech./ B.E. or equivalent degree in Metallurgical Engineering/ Materials Science/ Ceramics Engineering/ Mechanical Engineering/ Manufacturing/ Production Engineering or related areas. Candidate having B.Tech./B.E. degree should have a valid GATE score.
Age Limit	35 years
Desirable	Experience in some of the following areas: powder metallurgy, sintering, processing of metals, ceramic powders, mechanical alloying, microstructural study, metallography practices, heat treatments, mechanical testing, familiar with various material characterization, processing and testing equipment, etc.

Note:

1) Interested applicants should apply online by 14th April, 2022, through the online google form:

 $\underline{https://docs.google.com/forms/d/e/1FAIpQLSde04yExtMI871NYi5pE1e8OsQzqsbUUM5zvaVodOfGGpEUXg/viewform?usp=sf_link}$

2. The interview of shortlisted candidates will be conducted online. The date and time of the interview will be informed after shortlisting. Selection committee may set some cut-off mark for qualifying degrees for shortlisting, if number of applications are large. For any query in this regard, candidates may write to Prof. Bharat B. Panigrahi, Principal investigator (Email: bharat@msme.iith.ac.in), Department of Materials Science and Metallurgical Engineering.