

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
Mechanical and Industrial Engineering

SRIC/06

Dated: April 26, 2019

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

Applications are invited from Indian nationals only for project position(s) as per the details given below for the consultancy/research project(s) under the Principal investigator (Name: **Dr. Indra Vir Singh**, Dept./Centre: **Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee**)

1. **Title of project: Development of XFEM Based Damage Tolerance Philosophy for the Remaining Life Assessment of Aeroengine Components**
 2. **Sponsor of the project: Aeronautics Research & Development Board (AR&DB), New Delhi**
 3. **Project position(s) and number: Junior Research Fellow, One**
 4. **Qualifications: M.E./M.Tech. (GATE qualified) in Mechanical/Design/CADCAM/Applied Mechanics or equivalent with exposure/interest in finite element modeling and having consistently good academic record. Candidates with B.E./B.Tech. in Mechanical or Aerospace Engineering with GATE and having good academic record can also be considered.**
 5. **Emoluments: Rs. 25,000* per month (*Likely to be revised)**
 6. **Duration: Three Years (Upto 25/12/2021)**
 7. **Job description: Damage Tolerance design philosophy aims to develop systems/structures, which satisfactorily fulfill their intended functional requirements in the presence of defects/cracks. The XFEM based damage tolerance methodology will be developed for the remaining life assessment of aeroengine components under individual/combined creep and fatigue loading conditions. This methodology involves crack growth modeling in laboratory specimens followed by the crack growth in three-dimensional complex-shaped components such as high temperature rotor components of gas turbine engines.**
1. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
 2. Candidates desiring to appear for the Interview should submit their applications with the following documents to the office of Principal Investigator through email, by post or produce at the time of Interview:
 - Application in a plain paper with detailed CV including chronological discipline of degree/certificates obtained.
 - Experience including research, industrial field and others.
 - Attested copies of degree/certificate and experience certificate.
 3. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
 4. Preference will be given to SC/ST candidates on equal qualifications and experience.
 5. Please note that no TA/DA is admissible for attending the interview.

Note: The selected candidate may get an opportunity for PhD admission.

The last date for application to be submitted to office of Principal Investigator isby 5 PM.
(not applicable for walk in interview)


The interview will be held at **Committee Room, East Block, Mechanical & Industrial Engineering Department, IIT Roorkee on 24/05/2019 at 11.00 am** (to be given only for walk in interview)

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*To be uploaded on IIT Roorkee website and copy may be sent to appropriate addresses by PI for wider circulation.


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Approved
PKumar
कुलसचिव (सिद्धि)/Dean (SRIC)
26.4.19