



# Birla Institute of Technology & Science, Pilani

Hyderabad Campus

Dr. Raghu Piska, Ph.D.

Assistant Professor

Department of Civil Engineering

raghupiska@hyderabad.bits-pilani.ac.in

## CALL FOR JUNIOR RESEARCH FELLOW FOR A DST SPONSERED PROJECT

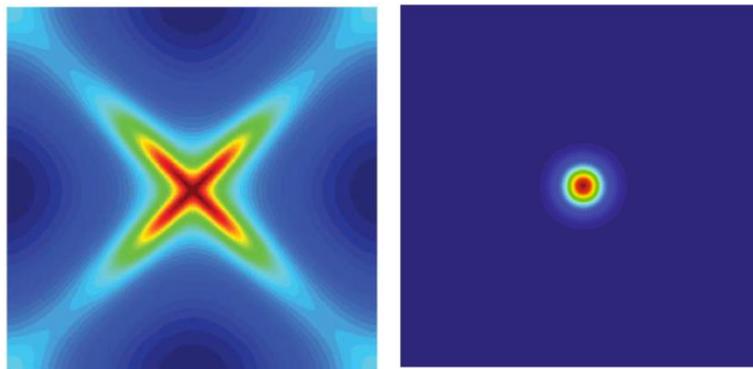
Date: 17<sup>th</sup> May 2022

Applications are invited from suitable candidates for Junior Research Fellow (JRF) [1 No] to work on the following project sponsored by Department of Science & Technology (DST), under the supervision of **Dr. Raghu Piska**, Department of Civil Engineering, BITS-Pilani, Hyderabad campus.

**Title of the project:** Computational modeling of damage in solids

**Project description:** The project involves developing a fracture model and implementing it using Finite element analysis to simulate the fracture propagation in solids.

Selected candidate may be permitted to register for Ph.D. programme of BITS, Pilani, in the subsequent semester (starting from September 2022) subject to the fulfillment of the requirements.



(a)

(b)

Figure: Fracture simulation in thick plate using Phase field damage model under transverse (a) static load (b) dynamic load



Institute web: [www.bits-hyderabad.ac.in](http://www.bits-hyderabad.ac.in)

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**Duration of the project:** 4.5 years

**Project position and number:** JRF (1 position)

**Fellowship amount:**

₹ 31,000 (consolidated) per month for first two years,

₹ 35,000 (consolidated) per month till the completion of the project.

**Eligibility requirements:**

- Masters degree in Civil Engineering preferably with Structural Engineering/Geotechnical Engineering specialization, Mechanical Engineering, Aerospace Engineering or Applied Mechanics with minimum of 70% or 7 CGPA.
- Bachelors degree in Civil/Mechanical Engineering with excellent academic profile are also eligible to apply.
- Candidates with any M.Tech/M.E degree having experience in working with Solid Mechanics, Structural Analysis, Finite Element Analysis and Programming are also eligible to apply.
- Candidates with a valid GATE score will be given preference.
- **Age limit:** 30 years.

**Application Procedure:** Interested candidates with the above mentioned qualification can send the detailed curriculum vitae (CV) along with research experience and published research papers if any, by **10<sup>th</sup> June 2022**, to the Principal Investigator, **Dr. Raghu Piska** via email: [raghupiska@hyderabad.bits-pilani.ac.in](mailto:raghupiska@hyderabad.bits-pilani.ac.in) with the subject of the email as “Application for JRF for a DST funded project”. Please note that only qualified and suitable candidates will be called for interview to be held online.

Dr. Raghu Piska

Department of Civil Engineering

<https://universe.bits-pilani.ac.in/hyderabad/raghupiska/Profile>

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