



# Birla Institute of Technology & Science, Pilani

Hyderabad Campus

Dr. Amol Vuppuluri, Ph.D.

Assistant Professor

Department of Mechanical Engineering

amol@hyderabad.bits-pilani.ac.in

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

**Date: 5<sup>th</sup> June 2023**

Applications are invited from suitable candidates for Junior Research Fellow (JRF) [1 No] to work on the Core research Grant (CRG) project sponsored by Science & Engineering Research Board (SERB), under the supervision of **Dr. Amol Vuppuluri (Principal Investigator)**, Department of Mechanical Engineering, BITS-Pilani, Hyderabad campus and **Dr. Raghu Piska (Co-Principal Investigator)**, Department of Civil Engineering, BITS-Pilani, Hyderabad campus.

**Project description:** The project involves developing a fracture model and implementing it in a Finite Element framework to simulate the crack propagation and fracture in brittle solids.

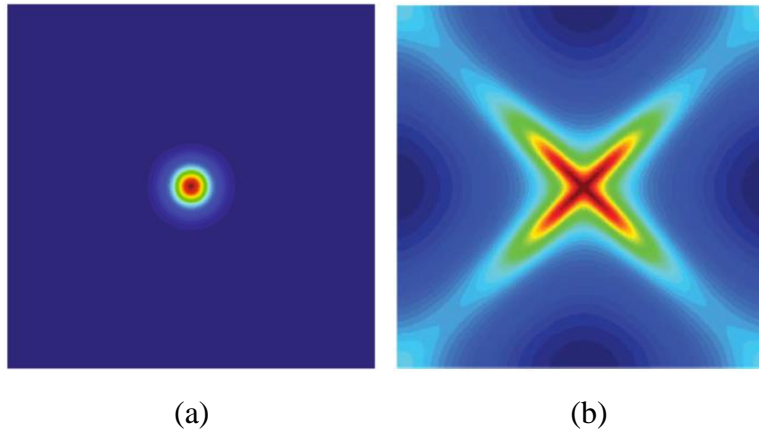


Figure: Fracture simulation in thick plate using Phase field damage model under dynamic load (a) and (b) transverse static load

**Selected candidate may be permitted to register for Ph.D. programme at BITS, Pilani, in the subsequent semester subject to the fulfillment of the requirements.**

**Duration of the project:** 3 years

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



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

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## Fellowship amount: (For GATE Qualified Candidates)

₹ 31,000 per month for first two years,

₹ 35,000 per month for third year.

## Fellowship amount: (For Candidates who have NOT Qualified the GATE Exam)

₹ 25,000 per month for first two years,

₹ 28,000 per month for third year.

## Eligibility requirements:

- Master's degree in mechanical engineering (Design Specialization), Aerospace Engineering (Structures Specialization), Applied Mechanics or Materials Engineering with minimum of 70% marks or 7 CGPA.
- Bachelor's degree in 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, Finite Element Analysis and Programming are also eligible to apply.
- Candidates with a valid GATE score will be given preference.

**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 **30<sup>th</sup> June 2023**, to the Principal Investigator, **Dr. Amol Vuppuluri** via email: [amol@hyderabad.bits-pilani.ac.in](mailto:amol@hyderabad.bits-pilani.ac.in) and copying **Dr. Raghu Piska** (email: [raghu@hyderabad.bits-pilani.ac.in](mailto:raghu@hyderabad.bits-pilani.ac.in)) with the subject of the email as “**Application for JRF for a SERB funded project**”. Please note that only qualified and suitable candidates will be called for interview to be held online. For any query regarding the application for position, you may contact on email or office phone number given below.

Dr. Amol Vuppuluri (**Principal Investigator**)

Assistant Professor, Mechanical Engineering Department,

BITS-Pilani Hyderabad Campus

Contact mail-id (PI): [amol@hyderabad.bits-pilani.ac.in](mailto:amol@hyderabad.bits-pilani.ac.in)

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