



**Department of Mechanical Engineering**  
**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL**

**Advertisement for Senior Research Fellow (SRF)**

Applications are invited for the position of Senior Research Fellow (SRF) in a research and development project (**Ref. No. 3348/NITK/MHRD/IMPRINT/MECH/HK/2016-17/A9**) with following details:

**Title of the project:**

**“Development of Cost Effective Magneto-Rheological (MR) Fluid Damper in Two wheelers and Four Wheelers Automobile to Improve Ride Comfort and Stability”**

**Principal Investigator:**

**Dr. Hemantha Kumar,**  
Assistant Professor,  
Department of Mechanical Engineering,  
National Institute of Technology Karnataka, Surathkal  
Mangalore-575025,  
Karnataka.  
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Email: hemanta76@gmail.com;  
<http://mech.nitk.ac.in/faculty/hemantha-kumar>

**Name of the position: Senior Research Fellow (SRF)**

**No of Positions/Vacancies: Two (02) Positions**

**Qualifications:** B.E/B.Tech in Mechanical Engineering/ Mechatronic Engineering/ Manufacturing Engineering/ Production Engineering/Electrical Engineering/ Materials Engineering/ Related Branches with a minimum of 60% aggregate score (6.5/10 CGPA) and M.Tech/M.E in Machine Dynamics, Design and Precision Engineering or Machine Design or Mechanical Design/ Mechatronics Engineering/ Instrumentation and Control Engineering/ Embedded Systems Engineering/ Materials Engineering/ Manufacturing Engineering/ Related Branches with a minimum of 60% aggregate score (6.5/10 CGPA). A good GATE score will be an added advantage but not mandatory. Those who are appearing for M.Tech/ M.E last semester may also apply. Proof of M.Tech/ M.E certificate has to be provided during the time of interview.

**Experience:** - Minimum of two years of experience in academics / industry / research.

**Desired Skills:-**

- Basic exposure to software such as MATLAB, ADAMS, ANSYS, LabView.
- Academic project work experience related to magnetic materials, Electro magnetism, real time systems control and Magnetic particle dynamics.
- Ability to work in a team, good communication skills and experience in experimental research.

**Age Limit:- 30 years**

**Salary:- Rs. 28,000/month**

**Duration:** Three years or up to the termination of project, subject to annual performance review. **The candidate is entitled to register for Ph.D. at NITK, Surathkal, if found suitable.**

**How to apply:** Interested candidates must apply with the following documents (1) Cover letter (2) Bio-data with passport-sized photograph, (3) Scanned copies of educational certificates and mark sheets, class XII onwards (4) GATE qualified certificate(Optional) and (5) Scanned copies of Proof for research experience, special achievements and publications, if any.

The soft copies of all the above documents (pdf format) must be **emailed** to the **Principal Investigator (Dr. Hemantha Kumar) by 22<sup>nd</sup> July 2017**. The email address for correspondence is given above. Only shortlisted candidates will be intimated by email and called for interview in person. No TA/DA will be paid for attending the interview. The position is available immediately. Interviews most likely to be held during 1<sup>st</sup> week of August 2017.

## About IMPRINT India

IMPRINT is the first of its kind MHRD supported Pan-IIT + IISc joint initiative to address the major science and engineering challenges that India must address and champion to enable, empower and embolden the nation for inclusive growth and self-reliance. It stands for Impacting Research Innovation and Technology. IMPRINT provides the overarching vision that guides research into areas that are predominantly socially relevant. Please refer to the website <http://www.imprint-india.org> for more information.

### PROJECT DETAILS



IMPACTING RESEARCH INNOVATION  
AND TECHNOLOGY



Ministry of Human Resource Development  
Government of India



सड़क परिवहन और राजमार्ग मंत्रालय  
MINISTRY OF ROAD TRANSPORT & HIGHWAYS  
भारत सरकार  
Government of India

**PROJECT TITLE:- DEVELOPMENT OF COST EFFECTIVE MAGNETO-RHEOLOGICAL (MR) FLUID DAMPER IN TWO WHEELERS AND FOUR WHEELERS AUTOMOBILE TO IMPROVE RIDE COMFORT AND STABILITY**  
Project No: 7330

**Budget:- Rs. 3.55 Crores**

**Time Period: 2017-2020**

Principal Investigator:- **Dr. Hemantha Kumar**, Dept. of Mechanical Engineering, NITK

Co –Investigators

**Prof. C.Sujatha**

Dept. of Mechanical Engineering, IIT Madras

**Prof. K.V.Gangadharan**

Dept. of Mechanical Engineering, NITK

**Dr. Sharnappa J.**

Dept. of Mechanical Engineering, NITK

**Dr. Mohd.Rizwan Rahman**

Dept. of Material and Metallurgy Engg. NITK

**Dr. Sheron F**

Dept. of Electrical and Electronics Engg. NITK.

**Dr. Sandesh S**

Senior Manager, Ashok Leyland Ltd. Chennai

**Mr. Rajasekharan**

Scientific Advisor, Rambal Ltd. Chennai

#### Academic Collaborators



#### Industrial Collaborators

