

Dr. Pandey, Rishikesh



**PhD Institution and Year :** IIT(BHU)Varanasi, 2015

**Date of Joining IISc :** 01/04/2016

**Area(s) of Research :** Piezoelectrics, Dielectric and Multiferroic materials

**Name of the Post-doctoral Fellowship :** SERB-National Postdoctoral Fellow

**Laboratory where currently working :** Electro ceramic lab (C-211: Prof. Rajeev Ranjan)

**Department :** Deptt. of Materials Engineering

**Email address and Telephone number (not mandatory) :** [rishikeshbhu09@gmail.com](mailto:rishikeshbhu09@gmail.com)

**Topic(s) of Research :** Electric field induced phase transition in multiferroics

**Research Publications in IISc : -**

**Other accomplishments and recognition while in IISc : -**

**What information will be useful to post-docs if it is available on the post-doc page on the IISc Website ? List the items.**

Here students get freedom for working. They can use any instrument with proper training. The important lab facilities available here are

Structural Characterisation: Optical Microscope

<[http://materials.iisc.ac.in/webmet?page\\_id=934](http://materials.iisc.ac.in/webmet?page_id=934)>, SEM

<[http://materials.iisc.ac.in/webmet?page\\_id=941](http://materials.iisc.ac.in/webmet?page_id=941)>, EPMA

<[http://materials.iisc.ac.in/webmet?page\\_id=948](http://materials.iisc.ac.in/webmet?page_id=948)>, AFM & STM

<[http://materials.iisc.ac.in/webmet?page\\_id=955](http://materials.iisc.ac.in/webmet?page_id=955)>, TEM

<[http://materials.iisc.ac.in/webmet?page\\_id=960](http://materials.iisc.ac.in/webmet?page_id=960)>, FTIR

<[http://materials.iisc.ac.in/webmet?page\\_id=966](http://materials.iisc.ac.in/webmet?page_id=966)> and XRD

<[http://materials.iisc.ac.in/webmet?page\\_id=969](http://materials.iisc.ac.in/webmet?page_id=969)>, Thermal Analysis:

DSC, DT/TGA <[http://materials.iisc.ac.in/webmet?page\\_id=980](http://materials.iisc.ac.in/webmet?page_id=980)>:

Click here for online booking <<http://afmm.iisc.ernet.in:8080/Thermal/>>,

Mechanical Testing: DMA

<[http://materials.iisc.ac.in/webmet?page\\_id=988](http://materials.iisc.ac.in/webmet?page_id=988)>,

Depth Sensing Indentation <[http://materials.iisc.ac.in/webmet?page\\_id=999](http://materials.iisc.ac.in/webmet?page_id=999)>,  
Thin film residual stress <[http://materials.iisc.ac.in/webmet?page\\_id=1016](http://materials.iisc.ac.in/webmet?page_id=1016)>,  
UTM, Impact and Hardness testing <[http://materials.iisc.ac.in/webmet?page\\_id=1022](http://materials.iisc.ac.in/webmet?page_id=1022)>,  
Materials Processing: Solid State Processing, Liquid State Processing, Thin Film Deposition, Liquid  
State Processing <[http://materials.iisc.ac.in/webmet?page\\_id=1035](http://materials.iisc.ac.in/webmet?page_id=1035)>,  
Particle characterization: Particle Size Analyser, Zetasizer, Automatic Micropore Physisorption  
Analyzer <[http://materials.iisc.ac.in/webmet?page\\_id=1041](http://materials.iisc.ac.in/webmet?page_id=1041)>,  
Chemical Analysis: ICP, Atomic Absorption Spectrometer, HPLC, GPC/SEC  
<[http://materials.iisc.ac.in/webmet?page\\_id=1050](http://materials.iisc.ac.in/webmet?page_id=1050)>,  
Electrical behaviour, Heat Treatment

**A tweet about your post-doctoral experience in IISc :**

Extended lab facility and extraordinary guidance by faculty members make research very easy in IISc.