

**CENTRE OF EXCELLENCE, TEQIP-II**  
**IN**  
**PHASE TRANSFORMATION AND PRODUCT CHARACTERISATION**  
**JADAVPUR UNIVERSITY, KOLKATA**

---

15.07.2016

**NOTICE**

Type written applications are invited from all **Junior Research Fellows** working under COE,TEQIP-II for attending the five-day **residential training programme** on “**Quality Improvement for Innovation in Research (QI2R)**” to be organized by **National Metallurgical Laboratory, Jamshedpur 831007** during **08-12 August 2016**. Selection of JRFs for attending the training programme will be based strictly on the progress of work so far.

**Young faculties, particularly at the Assistant Professor level, are also requested to note the attached Training Programme and attend the programme. It is hoped that the programme would be highly beneficial to young faculties and also to the Research Fellows.**

Applicants of all categories interested to attend the above training programme should apply as per attached format addressing to Coordinator, COE, TEQIP-II and submit to TEQIP Cell by **21 July 2016 latest**.

  
15/07/16

**Pravash Ch. Chakraborti**  
Coordinator, COE, TEQIP-II

**CENTRE OF EXCELLENCE, TEQIP-II**  
**Jadavpur University**

APPLICATION FOR ATTENDING THE TRAINING PROGRAMME AT NATIONAL  
METALLURGICAL LABORATORY, JAMSHEDPUR DURING 08-12 AUGUST, 2016  
(For Research Fellows)

SL NO.	PARTICULARS	
1	Name:	
2	Name of the Department where the Research Fellow is attached:	
3	Complete Residential Address:	
4	E-mail id:	
5	Mobile No. :	
6	Name of the Research Supervisor:	
7	Whether registered for PhD?	
8	Area of Research:	
9	Thesis Title:	
10	Progress of Research, so far (in separate sheet with signatures of the applicant and supervisor)	
11	How the Training Programme would be beneficial?	
12	Specific Recommendation of Supervisor (with seal and signature)	
13	Recommendation of Head of the Department (with seal and signature)	
14	Applicant's Signature with Date	

### Day wise program outline

Day	Day Coordinators	9:30-11:00: Overview Lectures	11:30-1:00: Lab1	2:30-5:00: Lab2	5:15 -6:00
8/8/16	Dr. V.C. Srivastava & Dr. Gopi Mondal	Computational Alloy Design: Thermocalc & JMatPro/Dictra	Melting, Casting and Forging	Gleeble +HDPS	Day 1 recapitulation + Feedback
9/8/16	Dr. Goutam Das & Dr Ravi Kumar	Structural Characterization	Nano-micro-macro hardness, OM, SEM, EBSD	XRD, TEM	Day 2 recapitulation + Feedback
10/8/16	Dr. Shiva Prasad & Dr. Sharmistha Sagar	Mechanical Evaluation + NDE	Deformation, Fatigue including HTLCF, Fracture	ABI + NDE	Day 3 recapitulation + Feedback
11/8/16	Dr. Raghuvir Singh & Dr. A.K. Panda	Physical Characterization and Corrosion	TG/DTA, Magnetics, Surface modification	Corrosion & electrochemistry	Day 4 recapitulation + Feedback
12/8/16	Dr. Mita Tarafder & Dr. S K Pal	Data and Patent Analytics	Tutorial on Data & Patent analytics	Certificate distribution & Valedictory session	

**Registration:** 9:30 to 9:45 AM on 8/8/2016

**Inaugural Session:** 9:45 to 10:15 AM on 8/8/2016

**Valedictory session:** 2:30 PM on 12/8/2016

**Programme Coordinator:**

Dr. Mita Tarafder,

Senior Principal Scientist,

BDM Division, CSIR-NML,

Jamshedpur-831007

Email: [mt@nmlindia.org](mailto:mt@nmlindia.org) / [mita.csir@gmail.com](mailto:mita.csir@gmail.com)

Mobile: 09852193175; Landline: 0657-2345089

## Quality Improvement for Innovation in Research (QI<sup>2</sup>R)

**Duration: 5 days**

**Organized by:**  
CSIR-National Metallurgical Laboratory  
Jamshedpur-831007



For carrying out scientific research of excellence and to implement innovative ideas, research scholars and young faculty members need hands-on experience on using high-end experimental facilities and equipment, in addition to the core competence in metallurgical engineering.

CSIR-National Metallurgical Laboratory has excellent experimental facilities for material characterization and evaluation and a team of dedicated scientists and researchers are actively engaged in high-end research in the areas of component integrity evaluation, remaining life assessment and critical assessment of engineering components.

The proposed complete residential program on “**Quality Improvement for Innovation in Research (QI<sup>2</sup>R)**” is designed to impart hands-on training to research scholars and young faculty members for developing their equipment skill and theoretical knowledge so that they develop a thorough understanding about the reliability and reproducibility of experimental data. This is essential for implementing innovative research ideas following the innovation cycle for technology development and translation.

**Topic:** Experimental Techniques in Materials Engineering Research

**Eligible Participants:** Research Scholars and Young Faculty Members

**Date :** 8<sup>th</sup> August 2016 to 12<sup>th</sup> August 2016