

Vikas Jangid

Materials Engineering
Undergraduate Department
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General

Gender: Male	DOB: 1 st Feb 1994	Languages: English, Hindi
Nationality: Indian	Age: 21	

Education

DEGREE	MAJOR	YEAR	INSTITUTE	CGPA/ PERCENTAGE
Bachelor of science (BS)	Materials Science	2012-Present	Indian Institute of Science	5.5/8 (till 7th Se- mesters)
Higher Secondary	Science (CBSE)	2009-2011	Step by Step High School, Jaipur	84.67%
Secondary School	CBSE	2009	My Own School, Jaipur	86%

COURSES TAKEN APART FROM MAJOR

- Algorithms and Programming*
- Introduction to Electrical and Electronics Engineering*
- Elements of Solid Mechanics
- Computer Aided Design*
- Intro to Governance*
- Humanities : Science and Civilization in India
- Journalism for Scientists
- Polymer Science and Engineering 1,2&3
- Material Manufacturing and Design
- Probability and Statistics
- Analysis and Linear Algebra
- Introductory Physics 1,2&3*
- Introductory Biology*
- Basic Organic Chemistry*
- Physical Principles of Chemistry*

*-courses with lab

INTERNSHIPS

GE India Technology Centre Private Limited [May2015-July2015]
Strain measurement in GTD-444 Ni-Superalloy
Guide: Mr Sanjay Soundhi (Manager, Global Research Centre)
Worked on the main spots of strain concentration causing creep failure in GTD-444 Ni-Superalloy used in gas turbine engine of aircraft. Strain plots are obtained using Digital Image Correlation (DIC).

Department of MEMS, IIT Bombay [May2014-July2014]
Molecular Dynamics
Guide: Prof M P Gururajan and Prof Prita Pant
Worked on the Molecular dynamics studies of Cu-Al alloys using LAMMPS. Contributed to the solution of anomalous behavior of Cu-Al alloys from solid solutioning theory.

Department of Mechanical Engineering, IIT Delhi [May2013-July2013]
Fluid Mechanics
Guide: Prof M R Ravi
Worked on laboratory experiments in the Fuels and Pollution lab on a newly developed forced draught and a natural draught gasifier. Also worked on the calculations of draught and pressure drops in a natural draught gasifier.

KEY SCHOLASTIC ACHIVEMENTS

- Recipient of prestigious INSPIRE fellowship, Department of Sci. & Technology (DST), India [2012-Till date]
- Secured All India Rank 862 in Indian Institute of Technology (IIT-JEE) [2012]
- Secured All India Rank 564 in All India Engineering Entrance Examination (AIEEE) [2012]
- Cleared National Defense Academy exam (technical level) and got a call for SSB (Service Selection Board). [2012]
- Distinction in Regional Mathematics Olympiad [2011]
- Secured All India Rank 2182 in National Science Olympiad [2010]
- Ranked 31 in All India Talent Search Exam & Scholarship Award [2010]

RESEARCH INTERESTS

Computational Material Science: Molecular Dynamics, Potential Energy Calculations, Electronic Structure, Materials Modeling, DFT, etc.

Material Selection and Design: Mechanical system design, Mechanical properties, basic structures, composite materials, design processes, cost and environmental issues.

Mechanical Behavior of Materials: Creep, Fatigue, Hardness, Impact, Tension and Compression; Failure and its prevention, etc.

Microstructure: Dendrite and inter-dendritic and eutectic regions, crack propagation, texture and grain boundary engineering, etc.

POSITIONS OF RESPONSIBILITY

- Outreach–Lifestyle Head, and event Coordinator Pravega 2013-2015 [Jan 2013 – Till Date]
-A first of its kind initiative to promote research in Science and Technology.
- Digitizing Head, Quarks Magazine [2013- Till Date]
- Member of IISc Gymkhana (sports body of IISc) Managing Committee [2013-14]
- Member of organizing team of Samanway (Academia-Industry Meet) IISc [2014-2015]

TECHNICAL SKILLS

Programming Language: C, Verilog

Operating Systems: Windows, Linux

Materials Techniques: Digital Image Correlation(DIC), SEM, TEM, XRD, Mechanical Testing(Tension, Compression, and Creep) using Universal Testing Machine(UTM) and Fatigue, Impact and Micro&Macro Hardness Testing, Metal polishing and Microstructure Analysis.

Softwares: LAMMPS, WASP, Ovito, Paraview, Origin 8.5, Data Studio, Microsoft Office, Microsoft Visual Studio, CAD, MATLAB.

Design Software: Adobe Photoshop, Adobe Lightroom, Adobe InDesign

EXTRA CURRICULAR ACTIVITIES

Athletics: Active member of the IISc Athletics Association, Cycling, Cricket

Dancing: Regular performer in college events

Badminton: Avid Table tennis player. Finalist in IISc UG sports meet.

Miscellaneous: Painting, watching air crash investigations, BBC documentaries, reading newspaper, listening music, travelling, etc.

REFERENCES

Prof. M R Ravi
Mechanical Engineering, IIT Delhi

Prof. Kaushik Chatterjee
Materials Engineering, IISc Bangalore

Prof. M P Gururajan
MEMS, IIT Bombay

Mr. Sanjay Soundhi
Manager, Global Research
GE India Private Limited

Prof T A Abhinandan
Chairman, Materials Engineering, IISc Bangalore