

Gourav Mundhra

Graduate student

In the pursuit of developing alloys for advanced structural applications using computational thermodynamic modelling and experiments.



gourav.nitdurgapur.mse17@gmail.com ✉

(+91) 7003417075 📞

Chennai, India 📍

mme.iitm.ac.in/murty/students 🌐

[linkedin.com/in/grvmundhra](https://www.linkedin.com/in/grvmundhra) in

[gourav.nitdurgapur.mse17](https://github.com/gourav.nitdurgapur.mse17) S

EDUCATION

Master of Science (M.S.) & Doctor of Philosophy (Ph.D.)

Dept. of Metallurgical & Materials Engineering, Indian Institute Of Technology Madras

07/2017 – Present

Thesis Project:

- Lightweight multi-component alloys for aeroengine applications: CALPHAD modelling, Microstructure design and deformation behavior.

Bachelor of Technology (B.Tech.)

Dept. of Metallurgical & Materials Engineering, National Institute of Technology Durgapur

08/2013 – 05/2017

GPA: 9.01

WORK EXPERIENCE

INAE Summer Research Fellow

Indian Institute Of Science Bangalore

05/2017 – 07/2017

Achievements

- Manuscript titled "Use of a composite solid electrolyte for determination of Gibbs energy of formation of lanthanum hafnate" is submitted to Cermics International for publication.

Contact: Prof. K. T. Jacob – katob@materials.iisc.ernet.in

SURGE Summer Research Fellow

Indian Institute Of Technology Kanpur

05/2016 – 07/2016

Achievements

- Gained in-depth understanding on the topic "Effect of prestrain on tensile deformation behavior of commercially pure aluminium"

Contact: Dr. N. P. Gurao – npgurao@iitk.ac.in

Industrial Engineering Intern

Steel Authority of India Ltd.

12/2015 – 01/2016

Tasks

- Visited the steel plant to understand about the various processes of iron and steel making; from ores to finished products.

KEY TECHNICAL SKILLS

ThermoCalc 2019a

Accutex AU-300iA Wirecut EDM

Metallographic Sample Preparation

TEM Tecnai T12

DSC (SETARAM Labsys Evo 1600 °C)

Universal Testing Machine

XRD X'pert Pro PANalytical

PROJECTS

Design of advanced light-weight multi-component alloys for aeroengine applications (07/2017 – Present)

ORGANIZATIONS

ASM Interational (07/2018 – Present)

Graduate student membership

CERTIFIED WORKSHOPS ATTENDED RECENTLY:

INSMANAM 2019 Pre-conference Workshop (07/2019 – 07/2019)

Advances in nano-scale materials characterization organized by NFAPT

Crystallography For Materials Science (06/2019 – 06/2019)

TEQUIP III, sponsored course organised by Dept. of MSE, IIT Delhi (24th - 28th June, 2019)

Two day Workshop On Atom probe Tomography (03/2019 – 03/2019)

Workshop on Atom probe tomography organised by NFAPT

International Conference On Future Of Advanced Manufacturing (03/2019 – 03/2019)

Organized by DEAKIN-IITM COE

LANGUAGES

English



INTERESTS

Mechanical Behavior

CALPHAD Modelling

Transmission Electron Microscopy