

## Ms. Shalini Thulasidharan

D4, Sri Sai Avenue, Murugan Foundations,  
Vengambakkam Road, Mappedu  
Chennai – 600 126

Mobile: +91-8610977178  
+91-9840954458  
Email shalinithulasidharan@gmail.com

---

### MOTIVATION

I am a self-motivated professional with flair to combine my creative ability and to utilize my exuberance to grow professionally and contribute to the growth of the group and organisation. I feel that my analytical background, personality and experience make me a strong candidate for this kind of role.

### EDUCATION

#### Doctorate in Philosophy

Thesis Submitted

Crystal Growth Centre, Anna University, Chennai, Tamilnadu, India

**Thesis Title:** *Investigations on the growth and characterization of NdFeO<sub>3</sub> single crystals and rare-earth doped ferrite nanoparticles.*

**Master of Science, Materials Science, Overall GPA: 8.2/10**

**2013**

College of Engineering Guindy, Anna University, Chennai, Tamilnadu, India

**Thesis Title:** *Synthesis and characterization of Dy<sub>2</sub>O<sub>3</sub> electrospun fibers.*

**Bachelor of Science, (Hons) Physics, Overall GPA: 7.9/10**

**2011**

University of Madras, Chennai, Tamilnadu, India

### PROFESSIONAL EXPERIENCE

**Research Fellow, Crystal Growth Centre, Anna University, Chennai, India; June 2015 – till date.**

**Job Profile:** Responsible for performing research experiments, characterizing the samples and analyzing the data to be presented at various conferences.

**Associated Research Analyst in Patent coding and drafting (Engineering Division), Thomas Reuters, Chennai, India; 2013 – 2014.**

**Job Profile:** Responsible for coding of materials science related international patents for quality check.

**Instrumental Experience:** *Have hands on experience on*

#### *Growth Equipment*

- Liquid / Vapor Phase Epitaxy System,
- Spin Coating System
- Four Mirror Optical Floating Zone Furnace,
- High Temperature Box Furnace
- Thermal Evaporator,
- Chemical Vapor Deposition System

#### *Characterization Equipment*

- XRD : *PANalytical - X'Pert*
- UV Spectrophotometer
- Fourier Transform Infrared Spectrometer
- Scanning Electron Microscope

### **Analytical Softwares**

- Raman Spectroscopic analysis : Spec Win;      ➤ FTIR analysis : IR Pal 2.0 Spectragraph,
- XRD : Fullprof Retvield Refinement      ➤ UV-Vis Analysis : Spectra Manager

### **PAPERS PUBLISHED**

- **Title :** *Studies on structural and magnetic properties of NdFeO<sub>3</sub> single crystals grown by optical floating zone technique.*  
**Journal :** Bulletin Materials Science      **DOI No :** 10.1007/s12034-020-02259-4
  
- **Title :** *Investigations on the structural and magnetic properties of Nd<sub>1-x</sub>Gd<sub>x</sub>FeO<sub>3</sub>.*  
**Journal :** Bulletin Materials Science      **DOI No :** 10.1007/s12034-021-02399-1

### **SEMINARS**

**Short term courses: Global Initiative of Academic Networks (GIAN),** Crystal Growth Centre, Anna University, Chennai; 12<sup>th</sup> – 20<sup>th</sup> February 2018; 12<sup>th</sup> – 16<sup>th</sup> September 2017; 06<sup>th</sup> – 12<sup>th</sup> January 2017;

**Poster Presentation** “*Effect of sintering temperature on the physical properties of perovskite PZN-PT*”- National Conference on Materials Science & Technology, Thiruvananthapuram, Kerala, India, during 12-14<sup>th</sup> July 2017.

**Two Day Workshop on AFM, MFM, EFM, KPFM, STM & PFM** (Lecture cum Demonstration Programme), Crystal Growth Centre, Anna University, Chennai, India. 10<sup>th</sup> – 11<sup>th</sup> August 2017,

### **ACADEMIC ACHIVEMENTS**

- ✓ University rank holder in Bachelors (Physics) from University of Madras.
- ✓ Received proficiency awards in the examination conducted by University of Madras for the year 2009-2010 & 2010-2011.

### **TRANSFERABLE SKILLS**

**Soft Skills:** Have developed excellent communication skills during the course of my studies and work as an analyst.

### **Language Skills**

**Tamil / English:** Native Speaker