## Dr. Suresh Mamidi

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# **Experience**

## National Institute of Technology Agartala

Working as Assistant Professor in the Department of Chemical Engineering September 2022 – Till Date

# Jeonbuk National University, South Korea

Worked as postdoctoral researcher with Prof. In-Seok Seo in the division of advanced materials engineering.

November 2021 – August 2022

# Indian Institute of Technology Hyderabad, India

Worked as Project Scientist in TATA Steel sponsored project led by Prof. Saptarshi Majumdar.

March 2021 - August 2021

## Indian Institute of Technology Hyderabad, India

Worked as Institute Postdoctoral Fellow in Creative & Advanced Research Based On Nanomaterials (CARBON) Laboratory led by Dr. Chandra Shekhar Sharma.

June 2020 – December 2020

#### **Education**

#### Doctor of Philosophy in Chemical Engineering (2016-2020)

Indian Institute of Technology Hyderabad

Dissertation Title: Hard Carbon as Anode for Lithium-ion Batteries: Materials and Design Aspects

Supervisor: Dr. Chandra Shekhar Sharma

### Master of Technology in Chemical Engineering (2014-2016)

Indian Institute of Technology Hyderabad

Research Project: Carbon Materials as Anode for Lithium-ion Batteries: Material and Design Aspects

Supervisor: Dr. Chandra Shekhar Sharma

#### Bachelor of Technology in Chemical Engineering (2010-2014)

Jawaharlal Nehru Technological University Kakinada, Andhra Pradesh, India

Research Project: Removal of Manganese from Aqueous Solution using Limonia Acidissima Hull Powder as

Cost Effective Adsorbent

# Profession Recognition/Awards/Prize

- Recipient of N-PDF (National Postdoctoral Fellowship, India) Ref. No. PDF/2021/002821
- INYAS National Award 2020 for Research Excellence: Best PhD Thesis in the Area of Carbon Materials
- Best Thesis Poster Award at 2<sup>nd</sup> IISER Pune –KPIT International Energy & Mobility Ph.D. Conference held on Jan 30<sup>th</sup> and 31<sup>st</sup> 2020
- First Prize in International Science Image Competition organized by A. J. Drexel Nanomaterials Institute (DNI) Philadelphia in November 2019
- People's choice award for best image and 3rd Prize in Sci-Art competition organized by Indian National Young Academy of Science (INYAS) and IIT Hyderabad September-2019
- Best Oral Presentation in ChEmference 2018 organized by IIT-Bombay held on May 19<sup>th</sup> & 20<sup>th</sup>

#### Patents Filed

- Indian patent filed on "Hierarchical Three-Dimensional Hybrid Carbon Microelectrode Arrays as an Anode For Energy Storage Devices" Application Ref. No. 202041023243
- Indian patent filed on "Methods of Production of Pencil Needle Powder Based Graphite-Silica Composite Electrode" Application Ref. No. 202141012545.

# **Sponsored Projects**

Recipient of SRG (Startup Research Grant, SERB, Govt. of India) titled Hierarchical Electrodes:
 "Advanced Design Strategies and Engineering for Na-ion Battery" Ref. No. SRG/2023/000594
 Budget: 29.82 Lakh INR

### **Research Interests**

 Design and fabrication of high-performance 3D hierarchical multiscale electrode materials for micro-batteries and micro-supercapacitors, Synthesis solid electrolytes for Li-CO<sub>2</sub> batteries, critical data analysis of material and electrochemical characterizations.

### **Extra-Curricular Activities**

- Conducted hand on sessions for the Technical Education Quality Improvement Program (TEQIP)
  working shops on MEMS and NEMS. (Design and Fabrication)
- Won several intramural volleyball tournaments at IIT Hyderabad.
- Led the IIT Hyderabad volleyball team in the 53<sup>rd</sup> (IIT Guwahati) and 54<sup>th</sup> (IIT Bhubaneswar) Inter IIT sports meet.

Date: 09 May 2025 NIT Agartala **Suresh Mamidi** 3