

Sharooque Vadakkan

MTech graduate in renewable energy technology with excellent technical knowledge, great manual dexterity, and well developed analytical skills.



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Nilambur, India

EDUCATION

MTech in Green Energy Technology Pondicherry University

09/2020 - 06/2022

8.79/10, First class

Integrated MSc in Physics University of Hyderabad

07/2014 - 08/2019

6.84/10, First class

PERSONAL PROJECTS

MTech Project, Pondicherry University (09/2021 - 06/2022)

- "Development of eutectic phase change material based on lauryl alcohol and lauric acid for human comfort applications" under the supervision of Dr. A.Sreekumar, Pondicherry University

MSc. Project, University of Hyderabad (01/2019 - 06/2019)

- "Optical Activity of Sucrose solution Using Weak Measurement Method" under the supervision of Dr. Nirmal K Viswanathan, University of Hyderabad .

WORK EXPERIENCE

Intern

Solar Thermal Energy Lab (STEL), Pondicherry University

06/2022 - 10/2022

Achievements/Tasks

- Primarily managed the project "Preparation and characterization of nano enhanced PCM using metal oxide nanoparticles for thermal energy storage."
- Characterizations carried out using Differential Scanning Calorimetry (DSC), Fourier Transform Infrared Spectroscopy(FTIR), X-ray Powder Diffraction (XRD), Automated Thermal Cycling Unit and Thermogravimetric Analysis (TGA).
- Hands on experience with flat plate and evacuated tube thermal systems, solar air heaters and dryers and shell and tube heat exchangers.

Contact : Dr. A.Sreekumar - sreekmra@gmail.com

SKILLS

MATLAB

ORIGIN PRO

MS OFFICE SUIT

LATEX

PYTHON

Operation and maintenance of solar thermal instruments

Design, conduct and interpret scientific research

ACHIEVEMENTS

CSIR NET- JRF (2021)

Qualified CSIR - NET (Council of Scientific and Industrial Research – National Eligibility) test with JRF (Junior Research Fellowship) in Physical sciences(2022)

MNRE-NREF (09/2020 - 06/2022)

Recipient of MNRE-NREF (Ministry of New and Renewable Energy - National Renewable Energy Fellowship)

GATE (2020)

Qualified GATE (Graduate Aptitude Test in Engineering) in Physical Sciences

CERTIFICATES & WORKSHOPS

Introduction to solar cells - Technical University of Denmark (12/2020)

via- Coursera online courses

Electric Power Systems - The State University of NewYork (11/2020)

via- Coursera online courses

The Sustainable Development Goals - University of Copenhagen (06/2020)

via- Coursera online courses .

International Virtual Workshop on Biofuel Production and Processing (02/2021)

organised by Madanjeet School of Green Energy Technology , Pondicherry University

Short term course on Advanced Energy Materials (10/2020)

conductedby Dr. B. R Ambedkar National institute of Technology , Jalandhar . (2020)

LANGUAGES

Malayalam

Native or Bilingual Proficiency

English

Full Professional Proficiency

Hindi

Professional Working Proficiency

Tamil

Limited Working Proficiency

LINKEDIN URL

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