

JAYASATHYA.E

8939831125/ 9840861308

jayasathyaezhilkumar@gmail.com

<http://linkedin.com/in/jaya-sathya-2a6775307>



Objective & Profile

A proficient chemical engineer who analyzes processes and data performs research tests and develops plans to optimize plant operations. I completed my M.Tech chemical engineering and currently pursuing my PhD in chemical engineering with the aim of becoming a professional chemical process engineer proven ability to manage complex projects upgrade equipment and improve safety measures followed by extensive experience as Assistant professor for 3 years and as well as plant engineer in water treatment plant for 2 years A dedicated professional with the aim to improve processes and types of equipment used in processing chemicals and finding solution to the problems many industries faces Need a challenging position in an industry so, that my knowledge hardworking capacity, innovative thought and dedication aid to achieve the industries goal in long run and to build the professional career.

Education

- June 2018** Pursuing my PhD in Chemical Engineering Sathyabama University Chennai India
Specialization : Food Technology
Relavant Course Work: Research Methodology, Food Seperation Technology, Separation Technology, Modern Separatiion Process, Food Technology
Thesis: Optimization of Osmo – Convective drying of fruits & Vegetables by Response Surface Methodology
- Aug 2015** M.Tech in Chemical Engineering GPA: 81.1/10.0
- May 2017** Anna University, Chennai, India
Thesis: Extraction of valuable Compounds from fruit waste”.
- Aug 2011** B.Tech in Chemical Engineering GPA:9.28/10.0
- May 2015** Sathyabama University, Chennai, India.
Thesis: Experimental Studies on the Effect of Temperature on printed Circuits boards from E- Waste to optimize the yield of Pyrolytic Oil

Professional Experience

June 2017- May 2020 Assistant Professor; Dr MGR University, Chennai, India

- Taught core process engineering subjects: Fluid Mechanics, Mass Transfer, Heat Transfer, Process Engineering, Unit Operations, Food separation Process.
- Collaborated with other Faculty to revise the curriculum.

- Guided and supervised students during an industrial visit to Solar power plant manali Chennai, facilitating hands-on learning experiences and engaging discussions with industry professionals. Handled.

June 2021 – April 2023 Plant Production Engineer, Jayaa Distill Water Chennai, India.

- Evaluated Water Treatment System Performed Equipment trouble shooting and Maintained Accurate Records.
- Managed Inventory of Treatment Chemicals and Supplies Optimizing Cost Effectiveness Managed Water treatment process Including Purification, Filtration and Chemical Dosing.
- Conducted Regular Inspection and Maintenance on treatment equipment Ensuring Optimal Performance.

Skills

- P.E ASPEN HYSYS . MATLAB
 - Process Optimization
 - Quality Control Lab Experiments
 - Problem Solving
 - Project Management
 - Water Treatment Chemical Dosing, Process improvement, Water Sampling – data Analysis
- Core Qualification:** Technical Documentation, Time Management, Hazardous Management, Organic Chemistry , FTIR

Strengths

- Research Experience
- Publication Record
- Teaching Proficiency
- Effective Communication
- Laboratory Skills
- Subject Expertise

Projects

- Sep 2023** Osmo Convective drying of Kiwi and Ivy gourd and Comparative Study of Nutritional analysis , DR MGR University Chennai, India.
- Feb 2020** Optimization of the process of convective drying of edible mushroom using RSM – Dr MGR University, Chennai, India.

Publications

- March 2019** Polyamide 66/rinicoleic Acid – Ethylene Ethyl acrylate (PA 66/ EEE-R . ACID) MWNT Blend Nano Composites” - International Journal of Chem Tech Research
- April 2020** “Manufacture of Activated Carbon Soap from ARECA NUT Shells” – International journal of Engineering Applied Sciences and technology.
- July 2020** “ Studies on the polyethylene (PE) degradation behavior of Seemakkai seeds grinding Powder (SGP) – Journal of Waste Management and disposal.

Mar 2019 “ Studies on the Mechanical properties of LDPE with 1% benzophenone mixed various formulation of malic dextrose - International Journal of Chem Tech Research.

Achievements

May 2020 FDP Certificate based on bio Phyton.

Oct 2018 Certificate of Appreciation in the paper presentation in the Role of Technology in Shaping future health Care – DR MGR University.

Aug 2019 Certificate of Appreciation in digital monitoring cell on the title of the content Nano biotechnology and its application – DR MGR University.

July 2019 Participated and presented in CSIR Lecture Series based on Catalyst for Sustainable ECO Engineering Design

Sep 2019 Certificate of merit for present in the paper an optimization ansstudies on drying of fruits and Vegetables using various drying methods and comparative studies on both products in the first International Conference on CTSE – 2019 in SSN College of Engg

Languages

- English - Intermediate Fluency
- Tamil - Native Fluency

Declaration

I can do the job with great Sense of Responsibility and always try to make a positive contribution and efforts to prove myself as an assert to the organization.