

Dear Sir/Mam

I have completed one year of my PhD programme at IISc Bangalore, India. My father had recently retired as a teacher and this had led to ebbing of financial stability at home.

Sir/Mam, I am actively looking for a job opportunity to support my family and have put up a letter to discontinue my PhD programme from 2nd June 2017.

I did my MTech in Chemical engineering from IIT Madras and also have an industrial work experience of 2 years plus 1 year of research experience at IISc Bangalore. I had adorned various roles in production, process development, process improvement and plant commissioning during my stint in the industry working at Carborundum Universal Ltd and Synthite Industries Ltd.

Kindly request you to consider my resume if you have any suitable opening in any department at your esteemed organization [Research and Development (R&D), Process Engineering, Technical Services, Commissioning].

Please find Attached my resume.

Yours Sincerely

Merit Mathew

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OBJECTIVE

To take up a challenging role at your esteemed organization, thus get an opportunity to put to good use my knowledge obtained till now through the course of my study in the area of chemical and environmental engineering and to be able to contribute back to the world and make a difference.

EDUCATION

Program	Institution	%/CGPA	Year of completion
M Tech in Chemical Engg.	Indian Institute of Technology Madras, India	8.42	2014
B Tech in Chemical Engg.	Govt. Engg. College, Kozhikode, Kerala, India	73.51	2011
XII (CBSE)	Jawahar Navodaya Vidyalaya, Kannur, Kerala	89.60	2007
X (CBSE)	Jawahar Navodaya Vidyalaya, Kannur, Kerala	89.40	2005

PROFESSIONAL EXPERIENCE

- **Research Scholar – PhD Student in ICWaR, IISc Bangalore, Bangalore, Karnataka, India.** (July'16 to June'17)
 - Joined in Interdisciplinary Centre for Water Research (ICWaR).
 - Completed courses like Treatment of Drinking water, Water quality modelling, CFD (Computational fluid dynamics), Interfacial phenomena in materials processing, Design of water supply and sewerage systems.
 - Involved in preparation of report for selection of pipeline coating for transport of secondary treated water for Karnataka Govt.
- **Assistant Manager Production - Strategic Growth Area in Synthite Industries Ltd., Ernakulam, Kerala, India.** (Nov'15 to Mar'16)
 - Joined in Strategic Growth Area – Production.
 - Coordinating with department heads while reporting directly to the Director for the Plant commissioning.
 - In charge of the Process Innovation and Up-gradation for the New Turmeric Production Plant getting commissioned.
 - Introduced dust reduction technologies to make the turmeric production dustless.
 - Coordinating with the German technology provider for the new turmeric production process and its installation.
- **Deputy Manager in Carborundum Universal Ltd., Kakkannad, Kochi, Kerala, India.** (July'14 to Aug'15)
 - Joined in Technical department.
 - Production of Specialty products
 - Internal Auditor for ISO (9001-2008, 14001-2007) and BS OHSAS 18001-2004
 - Development of New products and processes.
 - ✓ Ready to press powders of Silicon carbide.
 - ✓ Thermal Spray powders.
 - ✓ Loose abrasive powders for semiconductor lapping.
 - ✓ Powders for casting refractory materials.
- **Apprentice at Binani Zinc Ltd., Kerala, India** (Feb'12 to April'12)
 - Study on the cooling towers for finding the reasons for reduced efficiency.
- **Industrial Training at Travancore Cochin Chemicals Ltd., Kerala, India** (April'10)
 - Learned about the various unit operations and processes in manufacturing NaOH, Chlorine and HCl.
 - Learned about the general structure of a chemical industry and the work of chemical engineers.

SCHOLASTIC ACHIEVEMENTS

- Got a rank of **164** in Gate **2012 Chemical Engineering**. Qualified in Gate 2014, 2016.
- **Paper** in *International Journal Aerosol and Air Quality Research (AAQR)*, (16: 1441–1451, 2016) with title “*PASSIVE RELEASE OF FUNGAL SPORES FROM SIMULATED SOLID WASTE SURFACES*”.
- **3rd** in XII Class and **5th** in X Class in Jawahar Navodaya Vidyalaya Kannur.
- **1st** in Technical Quiz on Environment-Chemical Engg in **Chem’10** organized by **IChE** Kochi Chapter.(June’10)
- **1st** in Technical Quiz on Chemical Engg in **Chem Correnza** organized by **IChE** Student Chapter, Govt. Engg. College Trissur, Kerala. (Dec’10)
- Participated in **National Conference on Emerging trends in Engineering and Technology** held at GEC, Calicut. (25-26 Feb, 2011)
- Participated in the **workshop seminar on Intellectual property rights** jointly organized by entrepreneurship club of GEC Calicut and Kerala council for science, technology and environment. (24th June 2010)
- Participated in **International workshop on Climate and Health effects of Tropical Aerosols** organized by Dept of Civil Engg., IIT Madras. (6-7 March 2013)
- Participated in **International Conference on Polymer Processing and Characterization (ICPPC’14)** organized by IUCNN and MG University. (11-13 Oct, 2014)
- Participated in **International workshop on Thermal Spray Technologies** organized by ARCI, Hyderabad. (22-23 Nov, 2014)
- Participated in **International Conference on Laser and Plasma Applications in Materials Science (LAPAMS’15)** organized by Organized by IIT Kharagpur in association with IIT Kanpur, CDTA, Algeria & IIM, Kolkata. (15-17 Jan, 2015)

PROJECTS

- **Emission of Bioaerosols - Evaluation of microbial release from surfaces** (M.Tech) (Dec’12 to May’14)
 - Study the mechanism of microbial release and the factors influencing it for Mathematical Modeling.
 - Developing a generalized and parameterized model for the prediction of any microbial species emission flux from any surface.
- **Manufacture of 175 TPD NaOH** (B.Tech) (July’10 to May’11)
 - Study about all the various methods available for NaOH production.
 - Prepare a feasibility study report on the manufacture of 175 TPD NaOH including process selection, plant design and layout, the location and also the economic analysis.

SKILLS

- Matlab
- Aspen Plus
- Design of Experiments (DOE)
- IMS Internal Audit (ISO and OHSAS)
- Literature Search and solution finding
- Planning and Execution
- CFD
- Equipment Design
- AutoCad Design
- Programming C and C++.
- Excel with Macro Programming
- Process Improvement and Innovation

COURSE WORK

- Mass Transfer Operations
- Chemical Reactor Theory
- Safety engineering in process plants
- Fluid and Particle Mechanics
- Unit Operations and Processes in Environmental Engineering
- Water Quality Modeling
- Water Treatment Technology
- Interfacial Phenomena in Materials Processing
- Chemical Engineering Design
- Process Heat Transfer
- Chemical Process Principles
- Treatment of Drinking Water
- Technology of Organic Chemicals
- Bioprocesses in Environmental Management
- Environmental Quality Monitoring and Analysis
- Design of Water supply and Sewerage Systems
- Process Dynamics and Control

LABS

- Advanced Chemical Engineering Lab
- Fluid Mechanics Lab
- Chemical Reaction Engineering Lab
- Process Simulation Lab
- Heat and Mass Transfer Lab
- Environmental Engineering Lab

POSITIONS OF RESPONSIBILITY

- **Incharge** for **commissioning** of new plant. (Nov'15 to Mar'16)
- **Incharge** for **the process Innovation and upgradation** in the plant. (Nov'15 to Mar'16)
- **Responsible** for **coordination** of all departments for the commissioning. (Nov'15 to Mar'16)
- **Incharge** for **Development of New products & Processes** (July'14 to Aug'15)
- **Incharge** of **Production** for Specialty Products. (July'14 to Aug'15)
- **IMS internal Auditor** for **ISO (9001-2008, 14001-2007) and BS OHSAS 18001-2004** (June'15 to Aug'15)
- **Mitr** department **counselor**. (IIT Madras) (July'13 to May'14)
- **Placement Coordinator**. (IIT Madras) (July'13 to May'14)
- **Buddy** and member in **iPals**. (IIT Madras) (Jan'13 to May'14)
- **Teaching assistant** for a course work. (IIT Madras) (Aug'13 to Nov'13)
- **Class Representative** from Second year till graduation (BTech) (Sept'08 to May'11)
- **Treasurer** for Association of Chemical Engineering Students (**ACES**) (BTech) (July'10 to May'11)
- **Treasurer** for **IChE Student Chapter** (BTech) (July'10 to May'11)
- **Executive** placement cell **member** (BTech) (July'10 to May'11)
- Lakshya'11 **programme committee** member (BTech) (Oct'10 to March'11)

CO-CURRICULAR ACTIVITIES

- Society of Petroleum Engineers member (**SPE**) (IIT Madras) (March'13 to Dec'13)
- **IChE Student Chapter** member (BTech) (July'08 to May'11)
 - Exhibitions, Lecture series, Quiz competitions
- **Association of Chemical Engineering Students** member (BTech) (July'10 to May'11)
 - Student meetings, Industrial visits.
- **Science Club** member (School) (June'02 to March'07)
 - Science workshops, Field trips, Participating in competitions
- Participated in **CYCLONE**, the fun cycling event (IIT Madras) (Oct'2012)
- Sports and Games
 - Played for my Cluster in Regional level Handball Competition in Guntur, A.P. (School) (Oct'05)
 - Third Prize in Discuss Throw (Btech) (March'11)
 - Football (School, IISc)
 - Badminton (IIT Madras, IISc Bangalore)

EXTRA-CURRICULAR ACTIVITIES

- National Service Scheme (**NSS**) (BTech) (July'10 to May'11)
 - Awareness campaign, Cleaning drives, Charity works
- Trauma Care (**TRACK**) (BTech) (Oct'10 to Oct'12)
- **Prakriti**, Wild life Club Member (IIT Madras) (July'13 to May'14)
- **iPals** (International Peer Advising Leaders) (IIT Madras) (January'13 to May'14)
 - Helping hand for the foreigners, interaction programmes.
- **Mitr** (IIT Madras) (July'13 to May'14)
 - Helping hand for students for academic and extra-curricular problems. Give counsel for any problem.
- **SIMA** Executive Committee member (IISc Bangalore) (Nov'16 to till now)
 - Malayali Association for IISc Students and Staff.

PERSONAL DETAIL

Date of Birth : 14 /09/1989
AGE : 27 years
Height : 184 cm
Weight : 94 Kg
Languages : Malayalam, Hindi, English
Marital Status : Single
Religion : Christian, Roman Catholic
State : Kerala
Nationality : Indian