

Mr. M. ARUL JAYAN

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OBJECTIVE:

Seeking a challenging and a full time engineering position where I can do teaching and research by using my skills and grow along with the organization

PERSONAL SKILLS:

- Worked as **Placement coordinator** for Chemical engineering department.
- Published research papers in **Scopus and Web of science journals**.
- Organized **conferences and webinars**
- Knowledge about **Outcome Based Education, NAAC & NBA**
- Strong **organizational skills**
- Experience in Process, **Lecturing and Handling projects with 15 years of experience.**

ACADEMIC QUALIFICATIONS:

- **Pursuing PhD in Faculty of Chemical Engineering, Sathyabama University, Chennai – 119, on Conversion of Syn gas to Hydrocarbon fuel by Catalysis. (Thesis submitted)**
- **M.Tech in Biopharmaceutical Technology, Anna University, Chennai in 2007 with 7.8 CGPA (First class).**
- **B.Tech in Chemical Engineering, Sathyabama Engineering College, Madras University in 2003 with 72 percentages (First class).**

EMPLOYMENT HISTORY:

Present Experience:

- Employer: **Hindustan Institute of Technology and Science**
Employer's profile: Department of Chemical Engineering, Padur, Chengalpet district
Job profile: working as **Assistant Professor (Se.Grade)** from Aug 10, 2022 to till date.

Previous experience:

- Employer: **Sethu Institute of Technology**
Employer's profile: Department of Chemical Engineering, Pulloor, Viruthunagar district
Job profile: worked as **Assistant Professor (Sr.Grade)** from Dec 21, 2017 to July 28, 22
- Employer: **Sathyabama University**
Employer's profile: Department of Chemical Engineering, Old Mahabalipuram road, Chennai 119.
Job profile: worked as Assistant Professor from June 2013 to Oct 2017.
- Employer: **Periyar Maniammai University**
Employers' profile: Department of Chemical Engineering, Vallam, Thanjavur, Tamil nadu
Job profile: worked as Assistant Professor from October 2010 to May 2013.

- Employer: **BIOLS Solution**
Employer's profile: Porur, Chennai
Job profile: worked as bioprocess engineer from October 2009 to July 2010.
- Employer: **Bharath University**
Employer's profile: Department of Industrial Biotechnology, Selayur, Chennai, Tamil nadu.
Job profile: worked as Assistant Professor from July 2007 to June 2009.
- Employer: **Karpaga Vinayaga College of engineering**
Employer's profile: Department of Industrial Biotechnology, Chengalpattu, Tamilnadu
Job profile: worked as Lecturer from June 2004 to March 2005.
- Employer: **Sun Pharmaceuticals Industries private limited**
Employer's profile: Madhuranthagam, Kanchipuram district, Tamilnadu.
Job profile: worked as junior production engineer from July 2003 to April 2004.
 - Handling reactors and downstream equipments (Industrial scale).

ADDITIONAL QUALIFICATION:

- Successfully completed **NPTEL Online Certification on Mechanical Operations**, conducted by Indian institute of technology Roorkee in March 2018.

Membership:

- International Association of Engineers (Membership number : 177437)

Projects submitted:

- Submitted a proposal on "Synthesis and Characterization of briquettes developed and designed using blend of natural and inorganic binders" to AU-NLCIL Innovation hub for energy, environment and Sustainability.

Computing skills:

- CHEMCAD

Training Attended:

Attended two months training in "Biopharmaceutical production" at **Biozeen, Bangalore** in 2009 under the guidance of **Ms.Nathalie Poirier, Ms.Anu Jacob, Mr.Adinarayana and Mr.Jayant patil.**

Subjects Handled:

- Chemical reaction engineering I & II
- Biochemical engineering
- Membrane technology
- Process equipment design

LIST OF PUBLICATIONS:

- Published paper on "A study on design of Batch reactor and Horizontal condenser in the production of Citronello" in **International Journal of Scientific Research in Engineering and Management** , Volume 05, Issue 12 December, 2021
- Published paper on "Facile preparation of highly dispersed copper promoted cobalt catalyst Supported on alumina nanospheres" in **Materials Letters** Vol 286, 129221-129225, 2021.
- Published paper on "Nano structured manganese promoted ferrous catalyst synthesized by incipient wetness impregnation method: Synthesis and Characterization" in **Materials Letters** Vol 240, 55-58, 2019.

- Published paper on **“Nanocrystalline copper oxide highly dispersed on mesoporous alumina by incipient wetness impregnation method:synthesis and characterization”** In Rasayan Journal of Chemistry Vol 13, (4),2188-2192 , 2020.
- Published paper on **“A study on the design of thermosyphon evaporator used in nuclear waste volume reduction method”** In Rasayan Journal of Chemistry Vol 11, (1), 307-311, 2018.
- Published paper on **“An overview of ferrous and cobalt catalysts used in the conversion of synthetic gas to fuels”** in International Journal of Chemtech research Vol 10 No 4,494 – 505, 2017.
- Published paper on **“Insilco docking studies of 11-beta hydroxysteroid dehydrogenase as a potential drug target for asthma”** in International Journal of Pharma and Bio Sciences 6(1): (B) 502 – 506,2015
- Published paper on **“Decolourization and Physico chemical analysis of textile azo dye by bacillus”** in International journal on Applied Bioengineering Vol 5, Issue 1,2011

CONFERENCE ATTENDED/ORGANIZED:

- Won **III place** in Presenting paper in the **International conference** on “Advances in Materials and Data sciences for Human and environmental welfare ”in SIMATS School of engineering, Chennai on 21st & 22nd September 2022.
- Presented paper in the **International conference** on “Nanomedicine”in Madurai Kamaraj University, Madurai on 25th & 26th February 2019.
- Presented paper in the **National conference** on “Global technologies in manufacturing and thermal sciences” in Sethu Institute of Technology, Viruthunagar district, on April 20 2018.
- Presented paper in the **National Conference** on Innovations in Applied Chemistry and Advanced materials in Sriram Engineering College, Perumalpattu, Chennai on September 26, 2017.
- Presented paper in the **International conference** on “Environment and health in changing climate” in Bharathidasan University, Trichy, on September 14 to 16 2016.
- Presented paper in the **National conference** on “Recent advances in chemical engineering” in Annamalai University, Chidambaram, on October 7,2016
- Organised **National conference** on “Emerging trends of chemical technology” in Sathyabama University held on 4 and 5 of march 2015
- Presented paper in **National conference** on “Bioreactor landfill technology “in Sathyabama University held on 4 and 5 of march 2013
- Won **1st** prize in paper presentation on **Xenotransplantation** in a National level symposium that was held in the Department of Chemical Engineering in Thirumalai Engineering College in 2002.

WORKSHOP/TRAINING ATTENDED:

- Participated in an online workshop on **“Matlab application in process simulation and control”** during 23 and 24 May 2020 in Sri Venkateshwara College of engineering, Chennai.
- Participated in a short term course on **“Chemical reaction engineering II “** during 27-31 May 2019 in Anna University,Chennai.
- Participated in a Short term course on” **Concepts in Chemical Reaction Engineering “**during 18 – 22nd June 2018 under quality improvement programme in Indian Institute of Science Bengaluru.
- Participated in a workshop on **“Computational fluid dynamics”** conducted by ANSYS Centre of excellence in Anjalai Ammal Mahalingam Engineering College, Kovilvenni,Thiruvarur district from may 22 to 26,2017
- Participated in the **“Science communication workshop”** held on Dec, 2016 at Sastra University, Thanjavur.
- Participated in **National workshop on “Catalysis in organic transformations”** held on 20 to 21 October 2016, Bharathidasan University, Trichy.

POSTER PRESENTATION:

- Won **first place** in presenting a poster on “**Bioleaching using microorganisms for the recovery of spent nickel catalyst**” in a **National conference** on Biomaterials in Medicinal Chemistry on 12 and 13 of April 2017 in Madurai Kamaraj University.

SEMINAR:

- Attended International seminar on **Waste management** at Sathyabama University, Chennai Tamil Nadu on June 7, 2011

REVIEWER:

- Sustainable water resources management (Springer journal)