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|  | **Job Objective**  A versatile, high-energy professional targeting assignments in **Environmental or Chemical Engineering** with an organization of high repute, preferably for remote work | | |
| | Nidhi Gupta | | |  | +91-9818819829 |
|  | g.nidhi25@gmail.com |
| **Education**  **Doctorate in Catalysis, Chemical Engineering** from TERI University, Delhi in 2021  **Certification in Career Counselling** from GCC & UCLA Extension  **M.Tech. in Chemical Engineering** from IIT Delhi with 8.7 CGPA in 2008  **Qualified GATE** in 2006  **B.Tech. in Chemical Engineering** from GGSIPU, Delhi with 79.86% in 2006  **Technical Skills**   * **Instruments:** GC, SEM, HRTEM, XRD, BET, TGA, CHN, XPS, RAMAN * **Programming Languages:** C, C++, HTML. * **Softwares:** ASPEN+, MATLAB, PROII, IDEAS(CAD), AutoCAD * **MS Office** (Word, Excel, PowerPoint & Outlook)   **Core Competencies**  Strategic Planning & Consulting    Subject Matter Expertise    Analytical skills    Project Management    Client Engagement    Team Building    Cross-functional Coordination  Career Counselling    **Thesis**  **Title:** Comparison of Bent Coil Heat Exchanger with Plate type and Shell & tube Heat Exchanger on a Pilot Plant.  **Supervisor:** Prof. K.D.P Nigam   * Performed a pilot plant study for bent coil heat exchanger. Pilot plant study was carried out for shell & tube and plate type heat exchanger for the same process conditions as for bent coil heat exchanger (High temperature & high-Pressure system) for water-water system and then a comparison has been done between these heat exchangers.   **Internship**  **Organization: Indian Oil Coorporation limited**  **Period:** Jun’05-Jul’05  **Responsibilities:**   * Simulated moving bed Technology – Calculations on conversion and efficiency   **Organization: Waste Water Analysis, Central Pollution Control Board, Delhi**  **Period:** Jun’04-Jul’04  **Responsibilities:**   * Various Techniques for waste water analysis were performed on waste water from various drains, factories and so on to report BOD, COD, Metal content, acidity, pH and other factors   **Soft Skills**  Communicator  Analytical  Problem Solver  Organized  Planner  Collaborator  **Personal Details**  **Date of Birth**: 25th May 1984  **Languages Known**: English, Hindi & French  **Address**: B-503 Pride CHS, sector 7, Plot no 1 Kharghar, Navi Mumbai-410210 | **Profile Summary**   * Well versed with technical writing, research papers for international and national journals and conferences. Preparation of technical manuals, documents and projects. * Capable of interacting with clients to provide **engineering advice and technical solutions**, coordinating with teams, preparing documentation, and developing project plans; knowledge on all areas of Chemical **Engineering** in order to analyse different projects and issues * Developing resources for **catalytic testing and project handling** for different chemical processes * Experience of working with **international collaborators** and with the hands-on training on different experimental and analytical setups. * **Instruments:** GC, SEM, HRTEM, XRD, BET, TGA, CHN, XPS, RAMAN * Expert consultant with experience in **advising on areas such as pollution, contaminated land and environmental policy**, also proficient in **conducting tests and surveys, collating and presenting environmental data and auditing processes** for efficiency and environmental impact * Skilled in identifying & evaluating problems with expertise in **implementing environmental programs and ensuring compliance with government regulations** * **An out-of-the-box thinker** with a flair for identifying & adopting emerging trends and addressing industry requirements to achieve organizational objectives and profitability norms   **Research Experience**  **Title:** Development of Catalyst from Solid Waste of Aluminium Industry for the Production of Hydrogen and Carbon Nanotubes  **Period:** Jan’10-Nov’12; Jun 2013 - 2017  **Designation:** Project Associate, INDO-UKIERI Project, TERI  **Responsibilities:**   * Performed experimental work for 8 months in Glasgow, UK and for the remaining duration in Teri, Lodhi Road, India. * Assisted in & worked on red mud, waste of Aluminium industry to develop a resource efficient process with zero solid waste production * Obtained products such as hydrogen and carbon nanotubes; modified catalyst for higher production of hydrogen and also for doped carbon nanotubes which can be utilized for production of electrode for fuel cells * Worked on: Gas Chromatography, SEM, HRTEM, XRD, RAMAN, XPS, BET, TGA, CHN   **Work Experience**  **Jan’13-Jun’13: United Nations Industrial Development Organization, Delhi as Project Coordinator | On Deputation with MoEF |**  **Key Result Areas:**   * Provided training for the task team members * Liaised & coordinated in the activities of the task teams, which developed the ESM system * Interacted with project stakeholders, relevant agencies, national and international experts and provided technical assistance * Managed & represented quarterly reporting to National Executing Agency and UNIDO about completed and ongoing services & tasks * Generated draft reports on various output of the work plan as per the activities * Maintained project planning and reporting systems in accordance with the requirements of the contract, and for project sponsors and stakeholders * Developed full scale project plans and associated communication documents like progress reports, budget reports, requirements documentation and presentations   **2008-2009:**  [**ACME Group, Gurgaon as Product Expert**](http://www.planetitech.org/)  **Key Result Areas:**   * Acted as process facilitator; delivered product knowledge to in-house and external customers * Created process for in-house knowledge management on existing products as well as for upcoming products * Worked on & prepared technical knowledge base for all products such as Technical Manuals and Presentations   **International Journal Publications/ Conferences**   * **International Journal of Advanced Research2019**   Gupta N., Balakrishnan M., Hargreaves J. S. J., Pulford I. D., Batra V.S. Catalytic cracking of toluene using red mud: Hydrogen evolution and carbon formation, International Journal Of Advanced Research, 7(2), 904-911   * **Journal of Sustainable Metallurgy 2016**   Alharthi, A.I., Hargreaves, J.S.J., Pulford, I.D., Gupta, N., Balakrishnan, M., Batra, V.S. and Singh, R.K., 2016. Hydrocarbon cracking over red mud and modified red mud samples. Journal of Sustainable Metallurgy, 2(4), pp.387-393   * N. Gupta, M. Balakrishnan, V.S. Batra, J.S.J. Hargreaves, B. Kramulova, U. Kurien, I.D. Pulford, J.L. Rico, Application of red mud for catalytic hydrocarbon cracking and characterisation of the nature of the resultant carbon deposits, **Europacatx 2011 conference, Glasgow**. * N. Gupta, M. Balakrishnan, V.S. Batra, J. Ďurišová, J.S.J. Hargreaves, I.D. Pulford, J.L. Rico, B. Kramulova, U. Kurien, A. Monaghan, S. Sushil, A Study of Red Mud as a Catalyst for Hydrocarbon Cracking and Application of the Resultant Carbon Deposits for the Remediation of Contaminated Water, **The International Committee for Study of Bauxite, Alumina & Aluminium (ICSOBA) 2011, Goa, India**. * N. Gupta, M. Balakrishnan, V.S. Batra, J. Ďurišová, J.S.J. Hargreaves, I.D. Pulford, J.L. Rico, R.K. Singh, Transformations in red mud on hydrocarbon exposure and subsequent application for water remediation, **SECTOX Green Chemistry 2010, Greece.**   **Academic Achievements**   * Conferred with “Certificate of Merit”: 2nd Ranker Yearly scholarship holder in B.Tech. from GGSIP University * Presented a Technical Paper in an Annual Tech Fest of IITD - TRYST 2005 On Indian Refineries - Adapting To Higher Octane * Secured 1st Prize in Language Awareness from Be British Council of Knowledge & Learning | | |