

ARPITA BANERJEE

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Summary

Detail oriented project associate in HP Green R&D Centre, Bangalore. Former part-time teacher in a high-secondary school under WBCHSE board, West Bengal Government.

Skill Highlights

- MOF, ZIF design, synthesis, characterization.
- Analytical techniques for data interpretation.
- Lab analysis of in-process samples.
- Ability to communicate complex science topics in a simple way
- Maintenance of lab equipment, data entry book and glassware.
- Strong knowledge in controlling chemical/fire hazards.
- Compatible with MS Office, Endnote, Chemdraw.
- Teaching and communication.
- Literature Search (Scifinder) and Ability to write scientific paper for R&D purpose.
- Skilled to provide guidance to team members and new comers.
- Potential to adapt easily with new techniques in chemical field.
- Good understanding on formulation and processing development.

Professional Experience

Project Associate, HPGRDC, Bangalore

03/2019 to Current

- Highly skilled in synthesis, activation, and modification of conventional adsorbents such as metal-doped activated carbon, zeolite, metal-organic framework (MOF), zeolitic imidazolate framework (ZIF), membrane, etc as well as their characterization by analytical techniques (FTIR, XRD, SEM, ICP-OES, BET, volumetric and gravimetric analyzer, etc).
- Experience in Pressure Swing Adsorption(PSA) pilot plant, absorption regeneration pilot plant, hydrogen generation (HGU) unit, vapor-liquid equilibrium(VLE) unit
- Proficiency in the preparation of DuPont model SOP for variuos instruments.
- Experience in Simulated Moving Bed(SMB) chromatography, refinery gas analyzer (RGA), and trace gas chromatography.
- Monitoring of Lab / Pilot Plants, maintenance of Electronic Lab Notebook, technical discussion with vendors.

Part-time teacher, Kabiguru High School, West Bengal

09/2016-09/2018

- Content development (Study Material, practice questions etc.) for state board exams.
- Practical on qualitative and quantitative analysis.
- Presentation (MS PowerPoint).
- Strong Communication and analytical Skills.
- Maintenance of student record book from time to time.
- Doubt-solving classes.
- Experience in board exam duties.

Academic

Master of Science: **Chemistry** (2014-16) 66.4%
Acharya Prafulla Chandra College, West Bengal State University, West Bengal

Bachelor of Science: **Chemistry Honours** (2011-14) 65.5%
Acharya Prafulla Chandra College, West Bengal State University, West Bengal

Academic Experience

- Surface tension, viscosity, electroanalytical measurements.
- Organic synthesis, purification by crystallization, melting point checking, TLC
- Organic qualitative analysis.
- Inorganic qualitative and quantitative analysis.
- Knowledge in analytical techniques (NMR, IR, Mass, UV-visible spectroscopy)
- Project on inorganic cobalt-salen complex synthesis and characterization

Certifications

Six Month CITA course from **West Bengal Youth Computer Centre**

Additional Skills

- **IT:** Microsoft Office (Word, Powerpoint, Excel), Chemdraw, Endnote, Scifinder.
- **Languages:** Bengali (native), English, Hindi
- Report preparation, Presentation, Women Safety Training, Swagelok training.
- **Health & Safety Practices:**
 - ✓ Knowledge of OSHA and NFPA rules
 - ✓ Knowledge of chemical hazards, fire extinguisher, emergency responses, Waste management