

## ASSOCIATE SCIENTIST

### Professional Summary

An efficient & organized pharmaceutical science graduate with 3+ years of pharmaceutical research experience working on variety of dosage forms including solid & semi-solid. \*Proficient in analytical techniques such as, UV-VIS, HPLC (ChemStation, Empower), Dissolution, Particle size analysis (Camsizer, zetasizer). \*Self-motivated & detail oriented can work independently as well as in a team environment.

### Experience

#### Associate Scientist

March 2015 to Current Apex Systems i¼ Manassas , VA

- Working independently towards developing robust solid & parenteral formulations.
- Involved in product development studies with new formulations from lab scale to pilot scale batches of immediate, delayed or controlled release solid dosage forms.
- Designed and executed Design of Experiments (DoE) using Minitab statistical software, Experienced with processing DEA controlled substances and high potency compounds.
- Authored and reviewed technical documentation, including: development reports, master batch records (MBRs) and standard operating procedures (SOPs) Prepare a technical data sheet for raw materials through the use of supplier and manufacturer Certificate Of Analysis (COA) and United States Pharmacopeial (USP) requirements Ensure compliance with USP, Current Good Manufacturing (CGMP), and standard operating procedures (SOP).

#### Laboratory Scientist

October 2013 to March 2015 Chickasaw Nation Industries i¼ Richland , WA

- Worked in a team to improve the release profile of the formulation using different approaches such as, salt selection, acid addition, bilayer tablet etc.
- Experienced using roller compaction stimulator for the preparation of dry granules.
- Analyzed formulations for their dissolution behavior to aid in formulation development.
- Worked with senior scientists for the execution of experimental plan to develop robust soft gel formulation & evaluation of their dissolution behavior using Åudiss profiler.
- Evaluated the effects of moisture on finished dosage form as well as API using Dynamic Vapor sorption (DVS).
- Liquid/Semi-Solid Dosage Forms Development Developed a robust method for viscosity measurement of semisolid formulation using Brookfield viscometer.
- Performed degradation stress studies on liquid/semisolid formulations.
- Preparation & characterization of lab scale batches of Nano suspension formulations for early stage clinical efficiency studies.
- Determined equilibrium solubility as well as thermal & physical characteristics for the discovery stage compounds.

September 2012 to February 2014 Bickford Senior Living i¼ Bloomington , IL

- Graduate Research Student Advisor: Dr.
- Almas Babar.
- Research Objective: "In vitro diffusion studies for the assessment and optimization of the drug release from various dermatological formulations of Verapamil Hydrochloride".
- Formulated various dermatological formulations of Verapamil Hydrochloride using different types of gel base (anionic and nonionic) and emulsion base (anionic, nonionic and cationic).
- Performed In vitro release tests (IVRT) on semisolid formulations.

#### R & D Formulation Intern

May 2013 to August 2013 Capsugel i¼ City , STATE

- Performed design of experiment (DOE) using proprietary lipid multi-particulate (LMP) technology.
- Pre-formulation studies and analysis for active pharmaceutical ingredient (API) & characterization of final product using dynamic light scattering (DLS), differential scanning calorimetry (DSC) and light microscope.

### Education

Certificate in regulatory affairs : 2015 Regulatory Affairs Professionals Society i¼ City , State

Master of Science : Industrial Pharmacy , Feb 2014 Long Island University i¼ City , State Industrial Pharmacy

Bachelor of Science : Pharmacy , August 2010 Rajiv Gandhi University i¼ State , India Pharmacy

Diploma : Pharmacy , September 2006 Board of Examining Authority i¼ State , India Pharmacy

### Professional Affiliations

Registered Pharmacist in India (RPh) \*Member of the American Association of Pharmaceutical Scientist (AAPS)

### Publications

Presented a poster at American Association of Pharmaceutical Scientists (AAPS) annual meeting & exposition 2014 held in San Antonio, titled "In vitro diffusion studies for the assessment and optimization of the drug release from various Verapamil Hydrochloride dermatological formulations"

\*Co-authored a poster at AAPS 2014, titled "In-vitro diffusion studies to develop and evaluate various semi-solid vaginal bases to optimize Miconazole Nitrate release with reduced level of Drug".

### Skills

acid, API, Design of Experiments (DoE), design of experiment, DSC, Forms, materials, Minitab, optimization, product development, regulatory affairs, Research, scanning, SOP, technical documentation

