

## **DMPK (PRE-FORMULATIONS) RESEARCH SCIENTIST**

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| <b>Educational qualifications</b> | M.Pharm (Pharmaceutics)/ Ph.D (Pharmacy)   |
| <b>Years of experience</b>        | 8-10 yrs   |
| <b>Key Responsibilities</b>       | <ul style="list-style-type: none"><li>• Read and understand client pre-formulation requirements</li><li>• Solid State and Solution State Characterization (interpretation of DSC, TGA and pXRD etc. data)</li><li>• Solubility assessment in Aqueous and Organic solvents simulated intestinal and gastric Medias.</li><li>• Bioavailability enhancement of compounds</li><li>• Excipient Compatibility Studies</li><li>• Preclinical formulation development of NCEs for pharmacokinetic, toxicology, &amp; in vivo efficacy studies.</li><li>• Ability to work with wide variety of excipients, API and dosage forms</li><li>• Hands-on experience in strategy to come up with pharmaceutically acceptable salts for NCEs and their characterization and interpretation of the data to propose the suitable salt.</li><li>• Should know the know-how of various formulations combinations to address the solubility issues for various routes to perform PK studies in preclinical species.</li><li>• Should be able to develop dosage forms for therapeutic areas like oncology, metabolic disorders, inflammation etc.</li><li>• Should be able to develop HPLC-UV based methods for conducting formulation analysis under GLP and Non-GLP modes</li><li>• Good knowledge of chromatography</li><li>• Preparation of documents such as SOP's for</li></ul> |



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|                            | Laboratory instruments and reports for preformulation studies.   |
| <b>Experience required</b> | <ul style="list-style-type: none"><li>• Good scientific knowledge about the role of pre-formulation in small molecule discovery.</li><li>• Basic knowledge of pharmacokinetics .</li><li>• Knowledge of various excipients and their permissible limits in preclinical and clinical setups.</li><li>• Handling of HPLC-UV/PDA</li><li>• Liquid chromatography.</li></ul> |

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