Biopharmaceutical Industry Job Titles by Functional Area

Clinical Research

Clinical Operations Assistant: Assists clinical operations teams with scheduling, budgeting, reporting, and other operational tasks related to clinical trials.

Clinical Trial Assistant (CTA): Provides administrative support to clinical trials. Assists with the preparation of trial documentation, regulatory submissions, and ensures data is organized and up to date.

Clinical Research Administrator: Assists with the administration of clinical trials, including organizing documentation, maintaining trial timelines, and ensuring compliance with regulations.

Clinical Research Coordinator (CRC): Supports the day-to-day operations of clinical trials, often working at clinical trial sites. Duties include scheduling patient visits, ensuring protocol adherence, and maintaining patient records.

Clinical Data Coordinator: Collects and manages clinical trial data. Ensures that data from clinical trials is accurate, complete, and adheres to protocol specifications. Works closely with data management teams.

Clinical Study Coordinator: Coordinates the operational aspects of clinical trials, including scheduling study visits, tracking subject progress, and communicating with sites.

Clinical Site Start-Up Associate: Focuses on the initiation of clinical trial sites, including site selection, regulatory submissions, contracts, and documentation for study start-up.

Clinical Research Associate (CRA): Supports clinical trials by monitoring study progress, ensuring data accuracy, and ensuring compliance with regulatory standards. Often involves travel to clinical trial sites.

Data Analytics

Clinical Data Coordinator: Supports the management and analysis of clinical trial data, ensuring that it is accurate, complete, and compliant with regulatory standards.

Data Integration Specialist: Focuses on integrating data from various sources, such as clinical trials, preclinical studies, or real-world evidence, to make it accessible and useful for analysis.

Business Intelligence Analyst: Focuses on analyzing data related to business operations, such as market trends, drug sales, and production data, to inform strategic decisions.

Health Informatics Analyst: Works with healthcare data, integrating and analyzing patient and clinical data to improve healthcare processes or outcomes. In biopharma, this can involve data from clinical trials or healthcare providers.

Data Analyst: Responsible for collecting, processing, and performing statistical analysis on data related to drug development, clinical trials, or research findings.

Medical Data Analyst: Works closely with medical teams to analyze patient data, clinical outcomes, or healthcare trends, with a focus on improving drug development or patient care.

Pharmaceutical Operations Analyst: Supports the operations team by analyzing and improving the efficiency of pharmaceutical manufacturing or distribution processes.

Research Data Analyst: Analyzes research data from lab experiments, clinical trials, or preclinical studies to assist in the development of new drugs or medical treatments.

Market Access Data Analyst: Supports teams in analyzing market access data for new pharmaceutical products, including pricing, reimbursement, and healthcare economics.

Operations Research Analyst: Uses data analysis techniques to solve problems related to pharmaceutical operations, including manufacturing, logistics, or product distribution.

Biostatistician: Works on the statistical analysis of clinical trial data to help assess drug efficacy and safety. Entry-level statisticians may assist with data preparation and preliminary analysis.

Data Scientist: Helps build predictive models or analyze complex datasets using machine learning or statistical methods to support drug development and decision-making processes.

Data Engineer: Builds and maintains the infrastructure required for collecting and processing large datasets, particularly in clinical trials or pharmaceutical R&D.

Drug Development

Toxicology Technician: Assists in assessing the toxicity of potential drug candidates in laboratory settings. Works on preclinical toxicology studies to understand the safety profile of new compounds.

Drug Development Project Coordinator: Helps organize and manage the various aspects of drug development projects, including timelines, budgets, and communication between teams.

Manufacturing Associate: Assists with the production of biopharmaceutical products. This could involve cell culture, fermentation, protein purification, and formulation. Ensures adherence to GMP during production processes.

Formulation Scientist: Focuses on developing and optimizing drug formulations (pills, injectables, etc.), ensuring they are safe, stable, and effective.

Research Scientist: Conducts laboratory experiments to understand disease mechanisms, drug targets, and potential therapeutic compounds. This role could focus on molecular biology, biochemistry, or pharmacology.

Preclinical Scientist: Works on animal studies to evaluate the efficacy and safety of drug candidates before clinical trials. Involves pharmacology, toxicology, and early-stage drug testing.

Drug Information

Drug Information and Communications Assistant: Works closely with senior staff to assist in developing and disseminating drug-related information, creating educational materials, and managing communications with both internal and external stakeholders.

Drug Information Specialist: Provides drug information and support to healthcare providers, patients, and internal teams. This may include responding to inquiries, preparing drug monographs, and conducting literature reviews.

Pharmaceutical Information Analyst: Collects, analyzes, and presents data related to drug information. This could include supporting product launches, preparing regulatory submissions, and helping with market research.

Health Economics and Outcomes Research (HEOR)

Clinical Outcomes Research Assistant: Assists in the design and implementation of clinical outcomes studies to assess the effectiveness of treatments. May involve data management and basic statistical analysis.

Epidemiology and Outcomes Research Assistant: Supports epidemiological studies aimed at assessing the burden of disease and the impact of interventions in real-world settings. Handles large datasets and performs basic statistical analyses.

Pharmacoeconomics Assistant: Supports the pharmacoeconomic team in performing cost-effectiveness and cost-utility analysis for drug products. Performs data collection, literature reviews, and assists in model building.

Health Policy Research Assistant: Conducts policy analysis related to health economics and outcomes, including studying the implications of healthcare policies on market access, pricing, and reimbursement.

HEOR Analyst: Collects, cleans, and analyzes data related to health economics and outcomes. Assists in modeling cost-effectiveness analyses, budget impact models, and other economic evaluations.

Outcomes Research Analyst: Focuses on assessing patient-reported outcomes (PROs), quality of life measures, and other health outcomes in clinical and real-world settings.

Market Access Analyst: Analyzes reimbursement, pricing, and access strategies for new drugs. Supports the development of market access strategies, including value dossiers and payer communications.

Value Communications Analyst: Supports the creation of materials that communicate the economic value of a product to stakeholders (e.g., healthcare professionals, payers, policymakers).

Real-World Evidence (RWE) Analyst: Works with real-world data sources (e.g., electronic health records, claims data) to generate evidence on the effectiveness and economic impact of drugs in the general population.

Pricing and Reimbursement Analyst: Assists with the analysis of pricing strategies, reimbursement levels, and market access for pharmaceutical products.

Health Economics Research Associate: Supports the development and execution of health economics studies. May involve conducting literature reviews, data collection, and preparing reports or presentations on findings.

Health Economics Data Manager: Oversees the collection, record keeping, and management of data for health economics studies. Ensures data integrity and preparing datasets for analysis.

Manufacturing

Production Planner/Scheduler: Assists with the scheduling and coordination of production activities, ensuring that materials and resources are available on time to meet production goals.

Packaging Operator: Operates equipment that packages biopharmaceutical products (e.g., vials, syringes, or injectable medications) and ensures the products are correctly labeled and sealed.

Process Technician: Operates and maintains equipment used in the biomanufacturing process (e.g., fermentation, cell culture, purification). May also involve monitoring production processes, making adjustments as necessary, and ensuring compliance with safety and quality standards.

Biomanufacturing Technician: Supports the production of biologic products, such as vaccines or monoclonal antibodies, by operating bioreactors, centrifuges, and filtration systems.

Validation Technician: Assists in the qualification and validation of equipment, systems, and processes in the manufacturing facility to ensure they meet industry standards and regulatory requirements.

Manufacturing Laboratory Technician: Supports the analytical testing for biopharmaceutical products, conducting stability studies, microbiological testing, and ensuring compliance with product specifications.

Production Technician: Focused on the final stages of biopharmaceutical production, where products are filled into vials or other containers, sealed, and labeled for distribution.

Cleaning and Sterilization Technician: Responsible for cleaning and sterilizing manufacturing equipment and cleanroom environments to ensure a contamination-free production area.

Environmental Health & Safety (EHS) Coordinator: Ensures the manufacturing environment adheres to health and safety regulations, conducting safety audits, training employees on safety procedures, and managing waste disposal processes.

Manufacturing Associate: Assists with the production and manufacturing of biopharmaceutical products, following standard operating procedures (SOPs), maintaining equipment, and ensuring quality control.

Medical Affairs

Medical Communications Coordinator: A key role in preparing and managing medical documents, publications, and educational content. This role works closely with cross-functional teams to create materials like scientific presentations, brochures, and manuscripts.

Medical Affairs Coordinator: Coordinates internal and external communications, manages meetings and logistics for medical events, and supports the implementation of medical strategies.

Medical Information Specialist: Responsible for providing accurate, up-to-date information to healthcare professionals and patients. This includes answering medical queries about products and clinical data.

Medical Affairs Analyst: Supports the analysis of clinical trial data, literature reviews, and medical presentations to assist in strategic decisions. This role is typically more data driven.

Medical Data Analyst: Collects, analyzes, and interprets clinical and scientific data to provide insights into the effectiveness of drugs or therapies.

Medical Affairs Associate: This position supports the Medical Affairs team by managing day-to-day activities, such as organizing medical meetings, reviewing scientific literature, assisting with regulatory submissions, and preparing materials for medical communications.

Scientific Operations Associate: Works with the Medical Affairs team to streamline processes, such as tracking clinical study progress, handling medical databases, and supporting medical meetings.

Medical Science Liaison (MSL): MSLs serve as scientific resources for healthcare providers, providing information about products, clinical data, and ongoing research. They often interact with KOLs (Key Opinion Leaders) and other healthcare professionals to discuss the scientific value of products.

Pharmacokinetics

Drug Metabolism and Pharmacokinetics (DMPK) Analyst: Performs in vitro and in vivo studies to assess the pharmacokinetic profile of drug candidates. Conducts laboratory-based experiments, analyzes PK data, assists in reporting and interpretation.

Pharmacokinetic Data Analyst: Supports PK data analysis using specialized software (e.g., NONMEM, Phoenix WinNonlin). Performs data entry, analysis, and reporting of pharmacokinetic data from clinical trials or preclinical studies.

Pharmacokinetic/Pharmacodynamic (PK/PD) Modeler: Develops models to describe the relationship between drug concentrations and their effects on the body, optimizing drug development processes. Performs data analysis, model development, and validation.

Clinical Pharmacology Associate: Assists in the design, implementation, and analysis of clinical pharmacology studies, focusing on PK, drug metabolism, and therapeutic outcomes. Performs data collection, regulatory document preparation, data analysis, and literature review.

Toxicology and Pharmacokinetics Research Associate: Supports preclinical toxicology and pharmacokinetic studies, helping to evaluate the safety and PK profiles of new compounds. Engages in lab work, data collection, and report generation for early-stage drug testing.

Preclinical Pharmacokinetics (PK) Research Associate: Performs preclinical PK studies to evaluate how potential drug candidates are absorbed, distributed, metabolized, and excreted. Involved with animal studies, data collection, sample analysis, and reporting.

Pharmacokinetics (PK) Scientist: Conducts pharmacokinetic modeling and analysis to support drug development. Analyzes plasma drug concentration data, develops PK models, and interprets absorption, distribution, metabolism, and excretion (ADME) profiles.

Pharmacovigilance

Signal Detection Assistant: Supports signal detection activities, identifying potential safety signals based on adverse event reports and other safety data sources.

Pharmacovigilance Compliance Assistant: Ensures that pharmacovigilance activities adhere to internal policies and external regulatory requirements.

Pharmacovigilance Coordinator: Coordinates the pharmacovigilance activities within a team, supporting case management, follow-ups, and documentation.

Safety Data Analyst: Works with safety data to analyze adverse events, ensuring data integrity and compliance with global standards.

Pharmacovigilance Associate: Collects, reviews, and evaluates adverse event reports, ensuring compliance with regulatory requirements. They may assist in signal detection and benefit-risk assessments.

Drug Safety Associate: Monitors the safety profile of drugs by collecting and reviewing adverse event reports from clinical trials, post-marketing, and spontaneous reports.

Safety Surveillance Associate: Works on monitoring drug safety through the collection of data related to adverse events, as well as assessing risk and benefit information

Clinical Safety Associate: Focuses on the safety monitoring of clinical trials, reviewing adverse events and ensuring proper documentation for compliance with regulatory guidelines.

Medical Safety Associate: Reviews medical information related to adverse events and assists with the reporting of this information to regulatory authorities.

Quality Control (QC) and Quality Assurance (QA)

QC Lab Assistant: Assists in the preparation and execution of lab tests. Maintains and organizes lab equipment and materials and helps with the documentation of results.

Batch Record Reviewer: Reviews batch records and manufacturing documentation to ensure compliance with regulatory standards and company policies.

Quality Systems Coordinator: Supports quality systems management by assisting in the documentation, tracking, and reporting of quality events, audits, and corrective actions.

Stability Study Coordinator: Assists in the coordination of stability studies for pharmaceutical products. Manages sample collection, testing, and documentation.

QA Documentation Specialist: Maintains and controls quality documents such as standard operating procedures (SOPs), batch records, and compliance reports.

QA Analyst: Analyzes products and processes data to ensure they meet established quality standards. Assists in the development and implementation of quality control systems.

QC Analyst: Performs testing and analysis on raw materials, in-process materials, and finished products to ensure they meet quality standards.

QA Associate: Ensures adherence to regulatory guidelines (e.g., FDA, EMA) and company policies. Reviews and documents quality processes, assists with internal audits, and helps maintain quality documentation.

Validation Associate: Supports equipment, process, and method validation efforts to ensure compliance with quality and regulatory standards.

QC Microbiologist: Performs microbiological testing to ensure the sterility and microbial quality of pharmaceutical products. Conducts environmental monitoring in production areas.

Regulatory Affairs

Regulatory Compliance Assistant: Supports compliance teams in ensuring that products meet the necessary regulatory requirements, assists in tracking regulatory changes, and help in audits and inspections.

Regulatory Affairs Coordinator: Coordinates and tracks regulatory submissions, maintains timelines for submissions, liaises with different departments, ensures that documents are compliant with regulatory standards.

Regulatory Affairs Compliance Specialist: Ensures regulatory compliance throughout the product lifecycle, assists with submissions, ensures proper labeling and marketing materials comply with regulations.

Regulatory Affairs Specialist: Prepares and reviews regulatory documents, assists in product registration and approval processes, liaises with regulatory authorities, and ensures compliance with industry standards.

Regulatory Documentation Specialist: Prepares regulatory documentation for submission to health authorities, reviews scientific data for regulatory compliance, and assists in compiling technical files.

Regulatory Affairs Analyst: Analyzes and interprets regulatory guidelines and standards, assists in preparing regulatory filings, and conducts research on global regulatory requirements.

Regulatory Affairs Associate: Assists with the preparation and submission of regulatory documents, maintains regulatory filings, tracks submission deadlines, and communicates with regulatory bodies (e.g., FDA, EMA).

Regulatory Operations Associate: Assists with submission logistics, ensures regulatory submissions are complete and in the correct format, and tracks regulatory milestones.

Sales and Marketing

Marketing Assistant: Assists the marketing team with planning, execution, and analysis of campaigns and projects. May involve working with cross-functional teams, tracking metrics, and managing communication materials.

PR Assistant: Assists in managing external communications for a biopharma company, including press releases, media outreach, and internal communications.

Pharmaceutical Advertising Assistant: Assists in developing advertisements for pharmaceutical products, working with creative teams to create print, digital, or broadcast materials.

Event Marketing Assistant: Supports the planning and execution of events, conferences, and trade shows related to biopharmaceutical products, helping to manage logistics and attendee communication.

Sales and Marketing Support: Provides administrative and operational support to the sales and marketing teams. Tasks may include organizing events, coordinating product materials, and assisting with campaign implementation.

Digital Marketing Coordinator: Manages and optimizes online marketing campaigns, social media platforms, and websites for biopharmaceutical products. Uses data and analytics to refine strategies and increase digital presence.

Product Specialist: Acts as an expert on a particular product or product line, supporting the sales team with in-depth product knowledge, demos, and technical information.

Customer Engagement Specialist: Engages with healthcare providers and customers to build brand loyalty and promote the company's products. This may involve customer education, feedback collection, and relationship management.

Clinical Sales Specialist: A specialized sales role where the focus is on the clinical application of drugs or medical products. You'll educate healthcare providers and key opinion leaders (KOLs) on the clinical benefits of biopharmaceutical products.

Market Research Analyst: Conducts market research to gather insights on customer needs, industry trends, competitors, and market conditions. Results are used to inform marketing strategies.

Brand Marketing Associate: Works under the guidance of senior brand managers to support the development and execution of marketing strategies for specific products or therapeutic areas.

Product Marketing Associate: Focuses on marketing specific products or product lines. Responsibilities may include coordinating product launches, preparing promotional materials, and monitoring product performance.

Healthcare Marketing Associate: Develops and executes marketing strategies tailored to healthcare professionals, focusing on educating and influencing decision-makers within the healthcare sector.

Pharmaceutical Sales Representative: Promotes and sells pharmaceutical products to doctors, hospitals, and clinics; educates healthcare professionals on the benefits and uses of drugs.

Pharmaceutical Sales Account Manager: Manages relationships with healthcare institutions, clinics, or pharmaceutical buyers. Handles product orders, tracks customer satisfaction, and supports the sales process.

Supply Chain

Procurement Assistant: Assists with the acquisition of raw materials, reagents, or supplies. Works with suppliers to negotiate prices and terms and ensures timely delivery.

Production Scheduler: Plans and schedules production runs to ensure timely delivery of materials or finished goods. Coordinates with other departments to meet deadlines and production targets.

Sourcing Specialist: Assists with identifying, evaluating, and selecting suppliers for the procurement of materials and components needed for manufacturing.

Materials Planner: Plans and manages the flow of materials from suppliers to production teams. Ensures timely availability of materials for production runs.

Supply Chain Coordinator: Assists with managing inventory, order processing, and tracking shipments. Coordinate between departments to ensure smooth operations.

Logistics Coordinator: Oversees the transportation and delivery of raw materials, components, or finished products. Ensures compliance with regulatory guidelines for temperature control and other standards.

Distribution Coordinator: Ensures that biopharmaceutical products are distributed efficiently to hospitals, pharmacies, and other healthcare providers. Monitors distribution schedules and delivery times.

Import/Export Coordinator: Manages the import/export of materials and products across borders, ensuring compliance with international trade regulations and timely deliveries.

Demand Planner or Analyst: Helps forecast product demand based on historical data, market trends, and production capacity. Works closely with sales and production teams to ensure alignment.

Inventory Control Analyst: Monitors stock levels of materials and finished goods, tracks inventory trends, and ensures that there are no supply disruptions.

Supply Chain Analyst: Analyzes data to improve the efficiency and cost-effectiveness of the supply chain. Helps identify bottlenecks or inefficiencies and works on process improvement.