The sub-Saharan Africa Health Research and Innovation (SAHRI) Fellowship Program – BioNTech High level Description of Fellow Profiles

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As the industry partner organization, BioNTech will offer hands-on industry training and R&D experience under the mentorship and supervision of subject matter experts. English proficiency is a must for all profiles.

Department	Description
Clinical Operations	Fellows will gain experience in creating an environment that fosters efficient, high-quality performance in the planning and execution of clinical trials, from start-up to close-out. They will develop skills in accelerating trial delivery while maintaining a strong focus on quality and compliance. By leveraging advanced methodologies, operational expertise, and innovative technologies, fellows will ensure that all activities are conducted in full alignment with Good Clinical Practice (GCP) standards. *Educational background - Bachelor's degree in a scientific field (biology, chemistry), or natural/life sciences or medical background*. *At least 3 years of experience working in clinical trials either at a site or at an organization responsible for executing clinical trials (non-government, government, academic, or industry organization).*
Global Research and Development Program Management	Fellows will gain experience in supporting the management of R&D programs by overseeing planning, execution, monitoring, and reporting to enable informed decision-making. They will develop skills in managing project and program timelines and budgets while collaborating with cross-functional teams to design strategies and detailed plans that advance research assets through preclinical, translational, and clinical development phases. By ensuring integration across all functional areas, fellows will learn to drive programs toward milestones and deliver on scope, budget, time, and quality objectives. *Educational background - Advanced degree in natural/life sciences, medicine, or a comparable field* *Working knowledge of pharmaceutical discovery processes. Therapeutic knowledge in infectious diseases.*
Early Clinical Development (Translational Science)	Fellows will gain experience in developing and implementing biomarker and translational strategies to support early to late-stage clinical development plans,

	including defining primary, secondary and exploratory immunogenicity endpoints and biomarker analyses. They will learn to integrate host, biomarker, and efficacy data analyses to translate findings into program- and platform-specific strategies for both pre-clinical reverse translation and advancing clinical development. The fellows will be involved with several departments including biostatistics, biomarker operations etc. and liaison with both the operations and the vendor strategy teams to make sure the assays used are of the right quality for clinical sample analysis. Additionally, fellows will gain expertise in defining and overseeing strategies for correlates of protection (CoP) analyses, ensuring that biomarker insights directly inform trial design and outcomes. *Educational background - Advanced degree in a scientific field in Immunology, Biology, Biochemistry, Molecular Medicine, Virology or a related field including natural/life sciences* *Previous experience working with clinical samples and/or clinical biomarker assay development*.
Product Supply Chain Management	Fellows will gain experience in supporting end-to-end supply chain operations by managing demand, supply, and material utilization across programs, while ensuring compliance with international GMP and Good Distribution Practice (GDP) guidelines, ethical requirements, and good documentation practices. They will learn to align material availability with manufacturing schedules, oversee supplier performance, and coordinate warehouse, transportation, and customs activities, all while monitoring product flows and logistics compliance. Additionally, fellows will contribute to project management, reporting, and continuous improvement initiatives by analyzing supply chain processes, identifying inefficiencies, and supporting the implementation of new systems and tools. *Educational background - Bachelor's or Master's degree in health sciences or economics field* *Additional qualifications (supply chain management, American Production and Inventory Control Society-APICS) are advantageous* *Previous experience working in supply chain either in planning, material management and/or logistics*
Clinical Development	Fellows will gain experience in providing expert input on key aspects of clinical development, including trial design, product profiles, development plans, study

	protocols, and interactions with ethics committees. They will develop skills in designing clinical trial strategies across Phases I–IV, ensuring alignment with regulatory and ethical standards such as International Council for Harmonization - Good Clinical Practice(ICH-GCP), U.S. Food and Drug Administration (FDA), EMA (European Medicines Agency), and World Health Organization (WHO) guidelines. Additionally, fellows will gain hands-on experience in overseeing safety and immunogenicity monitoring, setting up data safety boards, tracking adverse events, and ensuring site-level compliance through monitoring and verification. *Educational background – Medical Degree (MD) or equivalent* *Scientific and clinical background with a minimum of 2-3 years of experience in Infectious Diseases (e.g., Malaria, Tuberculosis, HIV) and/or emerging infections affecting low- and middle-income countries (LMIC) in a hospital/or academic setting, clinical setting- clinical trials experience is preferred*.
Technical Quality Assurance (QA for GMP Manufacturing and Quality Control)	Fellows will gain experience in technical Quality Assurance (QA) for GMP manufacturing and Quality Control (QC). They will learn about regulations, compliance, Quality Management Systems (QMS), as well as the oversight and governance of all GMP activities related to manufacturing and testing in a GMP environment. This includes GMP oversight for facilities, personnel, materials, equipment, methods, technology transfer, process/method validation, manufacturing, and testing activities, as well as support investigations, change controls, and vendor management. Fellows will also contribute to quality oversight and GMP compliance through maintaining risk registers and documentation coordination, as examples. *Educational background - Bachelor's Degree in Sciences (Pharmacy, Biotechnology, Engineering)* *Previous experience in a relevant GxP Industry or regulatory body [Good Manufacturing Practice (GMP) / Good Distribution Practice (GDP)], with an understanding of general GMP/GDP concepts*