



sanofi



College of
Pharmacy

PHARMACEUTICAL INDUSTRY FELLOWSHIP PROGRAM

2027-2029

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Steering Committee

Dear Future Fellows,

We are delighted with your interest on our Post-Doctoral Pharmaceutical Industry Fellowship Program, a distinguished partnership between Sanofi and Howard University.

Our program offers exceptional PharmD, PhD, and qualified candidates the opportunity to develop as future healthcare leaders through hands-on experience in the pharmaceutical industry. With pride, we've cultivated more than 50 Fellows across Research & Development (R&D), Specialty Care, and Corporate Affairs. Each Fellow's journey is guided by an experienced industry Preceptors who provide comprehensive mentorship and exposure to diverse functional and therapeutic areas, supported by a dedicated and passionate Steering Committee.

At Sanofi, we believe in nurturing excellence and talent. Our industry professionals are committed to mentoring exceptional individuals like you, providing invaluable experiences in scientific advancement, leadership development, cross-functional collaboration, and professional growth. Through this Fellowship Program, we shape future pharmaceutical industry leaders by combining scientific knowledge with practical leadership experience and professional development opportunities. As a global healthcare leader, Sanofi's commitment to inclusion and belonging ensures our Fellows reflect the communities and patients we serve. This commitment drives innovation and shapes the future of healthcare. We take pride in fostering an environment where diverse perspectives are valued and celebrated.

We invite you to explore this transformative opportunity and join us in our purpose to chase the miracles of science to improve people's lives.

Best regards,

Fernanda Montes Araujo
Fellowship Lead, Sanofi & Howard University Fellowship

Executive Sponsor



Lisa Lanstein

Head of Culture, Inclusion and Employee Experience, North America

Howard University Stakeholder



Fernanda Montes Araujo
Global Regulatory Strategy & Business Excellence Lead

Sanofi Steering Committee



Rebecca Mengue, PharmD
Clinical Operations Study Country Lead



Michelina Marotta
North America Early Talent Program Lead



Dexter David
Project Management Quality Lead



Cynthia Sadera, PharmD
Regulatory Strategist Immunology & Inflammation



Justin Lee
University Recruitment Manager, North America



Jessie Ross, PharmD
US Medical Director Next Gen Immunology



Brea Stephens, PharmD
MHSA
Post-doctoral Fellow, Diversity & Inclusion in Clinical Trials



Chiamaka Okerekefor, PharmD
Post-doctoral Fellow, Clinical Development



Avare Smith, PharmD, MHSA
Post-doctoral Fellow, Clinical Sciences & Operations



Taylor Richardson, PharmD, MS
Post-doctoral Fellow, Clinical Science & Operations



Jessica Yoon, PharmD
Post-doctoral Fellow, Global Medical Next Gen Immunology - Respiratory



Ankita Chittiprotu, PharmD
Post-doctoral Fellow, Global Medical Next Gen Immunology-Dermatology



ABOUT SANOFI

At Sanofi, we are an R&D-driven, AI-powered biopharmaceutical company committed to improving people's lives and delivering compelling growth. We are united by a single, unwavering purpose: we chase the miracles of science to improve people's lives. Our shared ambition is bold and clear: turning the impossible into the possible for millions of people around the world.

A LEGACY OF INNOVATION

In the last half century, Sanofi has grown into one of the world's leading healthcare companies – a culmination of a diverse group of companies sharing a rich history in healthcare innovation dating back to the 19th century. Today, our footprint extends to 100 countries, with more than 100,000 employees. Our deep understanding of the immune system and legacy in pursuing life-changing science began more than 50 years ago when we delivered the world's first polio vaccine, a testament to the breakthrough thinking that continues to define us.

OUR VALUES



Aim Higher

Focus on what matters, set high standards and move with urgency, learning from setbacks as we go to achieve higher performance.



Act For Patients

Never compromise on integrity, eliminate barriers and partner with others to go faster and further for patients.



Be Bold

Take thoughtful risks, seize opportunities and think beyond what's possible to accelerate our science and drive compelling growth.



Lead Together

Build trust and collaborate openly on our shared goals, celebrate collective wins and foster a sense of belonging.

SANOFI'S GLOBAL IMPACT



Making an impact *around the world*



OUR GLOBAL BUSINESS UNITS



SPECIALTY CARE

- Immunology
- Rare Diseases /Rare Blood Disorders
- Neurology/ Multiple Sclerosis
- Oncology



VACCINES

- Influenza
- Polio Pertussis and Hib
- Boosters
- Meningitis
- Travel and Endemic
- RSV



GENERAL MEDICINES

- Autoimmune Type 1 Diabetes
- Type 2 Diabetes
- Cardiovascular
- Established Products
- Transplant

Sanofi

FOCUS AREAS

Redefining R&D

Our immunoscience approach enables us to apply deep biological pathway knowledge and expertise across different, sometimes seemingly unrelated therapeutic areas. This lays the groundwork for more “pipelines in a product”, or medicines that can treat a multitude of conditions and, consequently, have the potential to help many more patients.

Our R&D Focus

Immunology & inflammation – We’re leaders in type 2 inflammation. Our teams are exploring different ways to rebalance the immune response, building a rich pipeline of potential first- and best-in-class medicines for type 2 inflammation and beyond.

Neurology – We use revolutionary technologies to design disease-modifying therapies for people with multiple sclerosis and amyotrophic lateral sclerosis. Our goal is to slow or halt neurodegeneration, control neuroinflammation, and protect, or even repair, the nervous system.

Oncology – Our immuno-oncology and molecular oncology teams are tackling some of the most elusive cancers out there using AI, synthetic biology, antibody–drug conjugates, NANOBODY® molecules, and other cutting-edge technologies. Our goal is to develop a new generation of medicines that ease the burden of cancer.

Rare Blood Diseases – We never stop innovating for people with rare blood disorders. Our contributions range from the first extended half-life clotting factors for hemophilia to the first approved treatments for acquired thrombotic thrombocytopenic purpura and cold agglutinin disease.

Rare Diseases – Our close collaboration with the rare disease community has been pivotal to groundbreaking work in lysosomal storage disorders. We’re committed to finding new solutions for people with Fabry, Gaucher, and Pompe diseases, acid sphingomyelinase deficiency, and GM2 gangliosidosis, among other conditions.

Vaccines – The incredible power of vaccines has never been clearer. Every day, we turn science into immunizations that protect people and communities around the world. Data science helps us profile harmful bacteria and viruses, while a unique range of proprietary technologies empowers our teams to target their vulnerabilities.

The Future of R&D

At Sanofi, we are knocking down borders between organ systems and traditional disease categories to apply our immunoscience platform across our R&D organization. This pathway-focused, system-level approach to R&D is built on the foundation of decades of scientific leadership. Our scientists, rooted in immunoscience and supported by AI, are ushering in a new age of R&D, where our commitment to precision medicine and our patient-driven understanding of disease mechanisms and pathways will give rise to transformative new options for people around the world.

Artificial Intelligence ACROSS SANOFI

We are an **R&D-driven, AI-powered biopharma company** committed to improving people's lives.

We aim to shorten the time between discovery to therapy by pioneering an innovative pipeline and executing transformative launches at scale. We are building and deploying AI-based solutions across our value chain responsibly, empowering our people with innovative technology, from research and development to manufacturing and patient engagement, to accelerate delivery to patients.

We have begun to significantly reduce the time between the discovery of a new molecule and the moment it becomes a therapy available for patients, with the aim to get life changing medicines to patients faster than ever before.



Scaling AI at Sanofi through 3 pillars:

Expert AI

Expert AI empowers our teams with massive computing power, machine learning and trained algorithms, to accelerate the pace of discovery, development, and delivery. This supports specific skills in data science, biology, and engineering to solve complex problems, especially across Research & Development and Manufacturing & Supply.

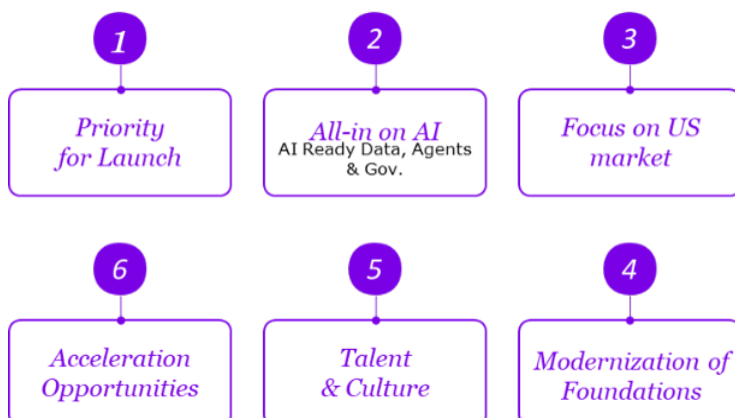
Snackable AI

Snackable AI refers to AI applications that everyone in our organization can use in their daily workflow, democratizing data and offering insights and recommendations that enable teams to make better decisions and allocate resources more efficiently, resulting in better outcomes for patients.

Generative AI

Generative AI (or GenAI), helps us streamline processes, relieving the burden of time-consuming, non-value-added tasks to free up time to focus on creativity, better decision-making and improve productivity across our value chain.

Embedding AI throughout the company:



“We are committed to providing the next-gen healthcare that patients and customers need. Through digital innovation, we will chase faster, search deeper and solve sooner.”



Emmanuel Frenehard
Executive Vice President,
Chief Digital Officer

BELONG. *Beyond Boundaries.*

Across every stage of our journey – from research and development to manufacturing and delivery – our inclusive culture shapes how we innovate, collaborate and deliver breakthrough science that responds to patients’ realities.

Our 2030 Vision - Three Bold Leaps

Patients - Miracles Begins with US

Patients see themselves in our clinical trials, feel understood in our communication and information, and can trust that we’re developing medicines and vaccines with their specific diverse need in mind. We’re building fairness for all in healthcare.

People - Great Minds Don’t Think Alike

People speak up without hesitation, collaborate freely with no artificial boundaries and silos, and know that their unique contributions is what drives our success. We’re making inclusion everyone’s business.

Places - Inclusion by Design

Places are state of the art. From accessible offices, labs and sites to inclusive digital tools that are easy to use for all to medicines and vaccines that are designed, packaged and dispensed keeping in mind the needs of real-world diverse patients. We’re setting a new standard for accessibility.

GLOBAL REGULATORY AFFAIRS

LABELING

OVERVIEW

Sanofi's ambition is to leverage science and innovation to improve people's lives, becoming the first biopharma company powered by artificial intelligence at scale and the industry leader in immunology and oncology. The Global Regulatory Affairs (GRA) team at Sanofi works to provide regulatory expertise using innovative and prompt guidance for product development and life cycle management of marketed products.

GOAL

The GRA Fellowship is focused on providing the fellow with the necessary skills and tools to become a knowledgeable, confident, and strategic regulatory affairs professional. The Fellow will gain hands-on experience, developing a well-rounded understanding of the regulatory functions and drug development process from early stage to post-marketing, including how technology, especially artificial intelligence, can be leveraged to enhance our ways of working.

OBJECTIVES

1. Develop necessary skills for authoring and facilitating development of corporate, US, and EU labeling for products in development and marketed products in Sanofi's portfolio.
2. Gain knowledge and understanding of the drug development process and the role of labeling in the lifecycle of a product.
3. Become knowledgeable of current FDA, EMA, and other health authority regulations, guidance, and current industry standards impacting product labeling and beyond.
4. Develop the skills necessary to lead cross-functional matrix teams to deliver optimal label content (Labeling Working Group) and gain approval through governance processes.
5. Understand the importance of labeling strategy related to the development and negotiation of labeling for investigational compounds and marketed products with health authorities.
6. Support local affiliates with implementation of core labeling information into local labels.
7. Develop submission-ready labeling documents which are in line with applicable laws, regulations, and guidance.

SANOFI COMPONENT

The fellow will be following a development plan with given exposure and project driven experiences to develop the tactical and strategic capabilities needed to be a successful regulatory professional. Ultimately, the fellow will become an integrated part of the GRA team through involvement in cross-functional projects with global colleagues

IDEAL CANDIDATE

- PharmD
- Desire to learn the skills needed for developing regulatory strategy for products in both the pre-approval and post-approval setting
- Be motivated to collaborate with multidisciplinary teams to meet business objectives
- Be open to learning and interpreting regulations and developing an effective and strategic plan
- Candidates with a passion for science, independent work ethic, collaborative spirit, solutions-oriented mindset, organized and strong time management skills are encouraged to apply

LOCATION

Morristown, NJ

Preceptors



Paragi Patel, PharmD
Director, Rare Disease and
Rare Blood Disorders.

GLOBAL REGULATORY AFFAIRS

STRATEGY IN GENERAL MEDICINES UNIT

OVERVIEW

Sanofi's ambition is to leverage science and innovation to improve people's lives, becoming the first biopharma company powered by artificial intelligence at scale and the industry leader in immunology and oncology. The Global Regulatory Affairs (GRA) team at Sanofi works to provide regulatory expertise using innovative and prompt guidance for product development and life cycle management of marketed products.

GOAL

Sanofi's ambition is to leverage science and innovation to improve people's lives, becoming the first biopharma company powered by artificial intelligence at scale and the industry leader in immunology and oncology. The Global Regulatory Affairs (GRA) team at Sanofi works to provide regulatory expertise using innovative and prompt guidance for product development and life cycle management of marketed products

OBJECTIVES

1. Develop regulatory strategic skills while contributing to global pre- and post-approval planning and submissions potentially including briefing documents, Health Authority interactions, IND/CTA submissions, BLA/NDA/MAA applications.
2. Lead team meetings, develop regulatory strategy, and contribute to and lead Health Authority submissions with increasing responsibility throughout the Fellowship program.
3. Partner with contributing functions within Sanofi to deliver products for diseases globally.
4. Experience various facets of GRA to better understand the roles of regulatory professionals.
5. Engage with global colleagues and learn country/region-specific regulatory processes.
6. Develop skills such as strategic and analytical thinking, effective communication, business acumen and partnering/collaboration.

SANOFI COMPONENT

The fellow will be following a development plan with given exposure and project driven experiences to develop the tactical and strategic capabilities needed to be a successful regulatory professional. Ultimately, the fellow will become an integrated part of the GRA team through involvement in cross-functional projects with global colleagues.

IDEAL CANDIDATE

- PharmD
- Desire to learn the skills needed for developing regulatory strategy for products in both the pre-approval and post-approval setting.
- Be motivated to collaborate with multidisciplinary teams to meet business objectives
- Be open to learning and interpreting regulations and developing an effective and strategic plan
- Candidates with a passion for science, independent work ethic, collaborative spirit, solutions-oriented mindset, organized and strong time management skills are encouraged to apply.

LOCATION

Morristown, NJ

Preceptors



Gargi Lakhwani
Regulatory Strategist,
Associate Director, Global
Regulatory Affairs

CLINICAL DEVELOPMENT

IMMUNOLOGY & INFLAMMATION - EARLY & LATE

OVERVIEW

At Sanofi, our scientists and physicians are dedicated to developing transformative therapies for individuals suffering from immune-mediated diseases. The Immunology & Inflammation Therapeutic Area (I&I TA) is one of the most dynamic within Sanofi, driven by a robust development pipeline that builds upon our flagship I&I medicine. In I&I, we bridge drug biology with disease biology, generating critical data to understand the impact of our therapies on disease progression and safety. Our drug development efforts are led by multi-disciplinary Global Project Teams (GPTs) responsible for defining the target product profile (TPP) and target value proposition (TVP) of each asset. A multidisciplinary GPT typically includes clinical development leads, regulatory affairs, clinical operations, biostatistics, safety/pharmacovigilance, CMC, commercial strategy, market access, legal, project management, and patient engagement experts, all collaborating to advance a drug from development through commercialization. These teams develop and execute clinical trial strategies, create essential study documents, and manage regulatory submissions while ensuring compliance with global health authorities. Furthermore, in collaboration with Medical Affairs, GPTs communicate evidence from our studies through scientific publications and congresses. The success of these initiatives depends on strong engagement with internal governance and effective collaboration with key internal and external stakeholders.

GOAL

Develop the fellow into a clinical development leader with a broad understanding of the drug development process.

OBJECTIVES

1. Serves on a cross functional drug development team focused on the development and implementation of the program-specific strategy.
2. Supports the Clinical Research Director (CRD) and Clinical Scientist (CS) in clinical science aspects of the program. Assists the CRD in creating the clinical development plan (CDP) at all stages of the program taking in key inputs from other functions, e.g., biostats, clinical pharmacology, operations, etc.
3. Supports the preparation of clinical data and other documents for governance and other presentations.
4. Follows developments and trends in the medical & scientific literature and disseminates updates to the project team and beyond.
5. Where required, leads project specific reviews of the competitor landscape to inform the program strategy.
6. Develop and maintain disease area expertise through structured literature reviews.
7. Provides scientific input on current state of disease area, other compounds in development, new insights on pathogenesis.
8. Prepares and presents data at scientific congresses and authors manuscripts in peer reviewed journals.

SANOFI COMPONENT

Understanding of the drug development process: As a member of the clinical development team, the fellow will gain expertise in the drug development process, including both the strategic and operational components of clinical research.

Leadership to create impact: Over time, the fellow will have an opportunity to lead initiatives to help build the strategy of the drug program. These areas may include assessment of scientific evidence, evaluation of the competitive landscape, and data review/analysis.

Develop study level skills: The fellow will get hands on training in study design, protocol writing, data evaluations, and safety monitoring, amongst others. The fellow will be expected to perform medical reviews under the supervision of the CRD.

Communication and external engagement: The fellow will work on both written and verbal communications through the preparation and presentation of materials. The fellow will represent Sanofi as a support team member for external meetings such as Congresses, Advisory Boards and Investigator Meetings. The fellow interacts with Key Opinion Leaders in the field in order to develop protocol, choose investigators, etc.

IDEAL CANDIDATE

- PharmD or relevant Clinical degree
- Previous research experience preferred (clinical, translational, or laboratory)
- A good understanding of the pharmaceutical and clinical drug development process; if no experience, enthusiasm and openness to learn
- Ability to work both independently and cross functionally within a team environment
- Ability to problem solve and manage issues with a solution focused approach
- Strong collaborative communications skills including the ability to engage with a diverse internal and external client base and find ways to manage through conflict
- Previous research experience preferred (clinical, translational, or laboratory)

LOCATION

Cambridge, MA or Morristown, NJ

Point of Contact



Tiago Matos, MD, MSc, PhD
Dermatologist &
Immunologist, Global
Project Head Immunology &
Inflammation

RESEARCH

CMC BIOANALYTICS

OVERVIEW

The CMC BioAnalytics team develops tests that measure the strength, purity and safety of drugs entering clinical trials. We ensure batch consistency, stability and overall product understanding and are a platform organization that supports biologics such as antibodies, recombinant enzymes and gene therapy from diverse indications and disease areas in Sanofi's portfolio from immunology and inflammation to rare disease and oncology. We leverage research background and ultimately prepare the methods for use in a quality control lab as the program progresses to late stage and commercialization, and contribute to a very collaborative operation between research, process development, quality assurance, commercial manufacturing, and legal. We, along with these colleagues, prepare regulatory submissions such as INDs and BLAs to the FDA, EU health authorities, and others.

OBJECTIVES

1. Develop a cell-based potency assay for a multi-specific antibody, analyze and interpret results, and troubleshoot as necessary.
2. Support cell line development of critical reagents in a biologic or gene therapy potency assay.
3. Gain exposure to GMP laboratory best practices and ways of working.
4. Prepare SOPs (standard operating procedures) and results reports.
5. Present optimization results at internal meetings including small team venues or larger Sanofi organizational symposia.
6. Maintain good documentation practices in our electronic lab notebook system.

SANOFI COMPONENT

Learn bioassay biostatistics:

The fellow will train on biostatistics specific to potency bioassays used to understand, optimize and control for assay performance including EC50, curve fit, relative potency calculations and precision. The training will be applied directly to the assay development project assigned. Training is given by SMEs in the biostatistics department, and application to bioassay development is overseen by the manager.

Train on bioassay development essentials:

The fellow will learn the nuts and bolts of bioassay development including fish-bone diagrams, control of critical reagents, optimizing cell culture, plate formatting and qualification. The fellow's manager will oversee literature review training in addition to on-the-job learning through assay development projects.

Understand the legal landscape:

The fellow will gain exposure, through collaborative meetings and correspondences with legal partners, how to compare and decide on paths forward between different cell line critical reagents which must be licensed from originators and vendors. The fellow's manager will demonstrate internal paperwork and procedures when appropriate.

IDEAL CANDIDATE

Required qualifications

- PhD in cell/molecular biology, biochemistry, biomedical engineering, etc.
- Experience with mammalian/CHO cell culture and plate-based assays
- Familiar with vector construct design and transfection/transduction
- Strong attention to detail and analytical mindset
- Experience troubleshooting an experimental procedure
- Self-motivated with excellent organization, time-management and communication skills

Preferred qualifications

- Experience in cell line engineering via plasmid/lentivirus, RNA transfection, single-cell cloning, or other molecular genetics
- Experience with SoftmaxPro or similar platereader software
- Ability to learn quickly, multitask and excel in a past-faced, highly cooperative team environment

LOCATION

Framingham, MA

Preceptor



Stephanie Whipple
Associate Director -
Analytical Development

GLOBAL MEDICAL

NEXT GEN IMMUNOLOGY MEDICAL

OVERVIEW

The Immunology & Inflammation therapeutic area in Sanofi is composed of a world-class immunology team that is aiming to deliver medicine to transform the lives of patients in the fields of dermatology, respiratory, rheumatology, and gastroenterology. We work relentlessly to identify and validate greater than 12 potential first-in-class, best-in-class molecules to address highly unmet medical needs as well as extend our understanding of the underlying mechanisms of disease through dedicated research.

GOAL

To gain an appreciation and understanding of the role of the Global Medical team in the successful development and launch of pipeline assets within a leading BioPharma business through broad hands-on experiences, dedicated mentorship, and longitudinal core responsibilities.

OBJECTIVES

1. Supports the Global Medical Director in the development and execution medical strategy for a high priority pipeline asset in collaboration with cross-functional partners (e.g., New Product Planning, Clinical Development, Scientific Communications, etc.)
2. Support the development and execution of advisory boards and steering committee meetings.
3. Lead congress planning activities including pre congress training, symposia, external expert encounter planning, scientific session coverage, and post congress debrief.
4. Follows developments and trends in the medical & scientific literature and delivers regular training to the cross-functional team.
5. Leads review of competitive landscape including mapping of scientific share of voice, lifecycle planning, and clinical trial footprint of key competing assets.
6. Support the development and execution of medical-led studies leveraging real world clinical and claims data.
7. Understand the integral and strategic roles of various functional groups within Immunology and across Sanofi through a product's lifecycle.

SANOFI COMPONENT

Understanding of the clinical development process: As a member of the Global Medical Pipeline team, the fellow will gain expertise in the drug development process, including both the strategic and operational elements of preparing for a successful launch of a new asset.

Leadership to create impact: Over time, the fellow will have an opportunity to lead initiatives to help build the strategy of the global medical team. These areas may include assessment of the scientific evidence, evaluation of the competitive landscape, and data review/analysis.

Develop study level skills: The fellow will get hands-on training in real-world study design, protocol writing, database evaluations, amongst others. The fellow will be expected to perform medical reviews under the supervision of the medical lead.

Communication and external engagement: The fellow will work on both written and verbal communications through the preparation and presentation of materials. The fellow will represent Sanofi as a support team member for external meetings such as Congresses, Advisory Boards and steering committee meetings. The fellow interacts with Key Opinion Leaders in the field in order to develop the protocol, choose speakers, etc.

IDEAL CANDIDATE

- PharmD
- Experience in a biopharmaceutical setting strongly preferred (e.g. internship, rotation)
- A good understanding of medical affairs and the clinical drug development process; if no experience, enthusiasm and openness to learn
- Experience in epidemiology and real-world evidence generation preferred
- Ability to work both independently and cross-functionally within a team environment
- Ability to problem solve and manage issues with a solution-focused approach
- Strong collaborative communications skills including the ability to engage with a diverse internal and external client base and find ways to manage through conflict
- Agility in the application of new digital solutions

LOCATION

Cambridge, MA or Morristown, NJ (hybrid work environment)

Preceptors



Elisabet Tassis
Associate Global
Medical Director Derm



Patrick Oberholzer
Global Medical Lead,
Derm/Rheum Pipeline

NORTH AMERICA MEDICAL

US NEXT GEN IMMUNOLOGY

OVERVIEW

The Immunology and Inflammation Therapeutic Area in Sanofi is composed of a world-class immunology team that is aiming to deliver medicine to transform the lives of patients in the fields of dermatology, respiratory, rheumatology, and gastroenterology. We work relentlessly to identify and validate greater than 12 potential first-in-class, best-in-class molecules to address highly unmet medical needs as well as extend our understanding of the underlying mechanisms of disease through dedicated research.

GOAL

The fellow will gain an appreciation and understanding on the role of US Next Gen Immunology Medical team in the successful development and launch of pipeline assets within a leading Specialty Care business unit through broad hands-on experiences, dedicated mentorship, and longitudinal core responsibilities.

OBJECTIVES

1. Supports the North America Head of Medical Next Gen Immunology in the development and execution medical strategy for a high priority pipeline asset in collaboration with cross-functional partners (e.g. New Product Planning, Clinical Development, Scientific Communications, etc.)
2. Support the development and execution of advisory boards and steering committee meetings.
3. Lead various congress planning activities including but not limited to pre-congress training, symposia content creation, external expert encounter planning, scientific session/booth coverage, and post-congress debriefs.
4. Follow developments and trends in scientific publications to deliver regular training to current cross-functional Howard/Sanofi fellows and stakeholders.
5. Lead review of competitive landscape including mapping of scientific share of voice, lifecycle planning, and clinical trial footprint of key competing assets.
6. Support the development and execution of medical-led studies leveraging real-world clinical and claims data.
7. Understand the integral and strategic roles of various functional groups within Immunology and across Sanofi through a product's lifecycle.

SANOFI COMPONENT

Understanding of the clinical development process: As a member of the US Next Gen Immunology Medical team, the fellow will gain expertise in the drug development process, including both the strategic and operational elements of preparing for a successful launch of a new asset.

Leadership to create impact: Over time, the fellow will have an opportunity to lead initiatives that help shape the strategy of the US Next Gen Immunology Medical team. These areas may include assessment of the scientific evidence, evaluation of the competitive landscape, and data review/analysis.

Communication and external engagement: The fellow will work on both written and verbal communications through the preparation and presentation of materials. The fellow will represent Sanofi as a support team member for external meetings such as Congresses, Advisory Boards and steering committee meetings. The fellow interacts with Key Opinion Leaders in the field in order to develop protocol, choose speakers, etc., to gain insights that can inform strategies cross franchise.

IDEAL CANDIDATE

- PharmD, Biomedical PhD, or Relevant Clinical Degree Experience in a biopharmaceutical setting strongly preferred (e.g. internship, rotation)
- A good understanding of medical affairs and the clinical drug development process; if no experience, enthusiasm and openness to learn
- Experience in epidemiology and real-world evidence generation preferred
- Ability to work both independently and cross-functionally within a team environment
- Ability to problem solve and manage issues with a solution-focused approach
- Ability to work in a dynamic environment and is comfortable navigating ambiguity to drive innovative solutions
- Communication skills including the ability to engage with a diverse internal and external client base and find ways to manage through conflict
- Agility in the application of new digital solutions
- Must have permanent US work authorization

LOCATION

Cambridge, MA or Morristown, NJ

Preceptors



Jessie N Ross, PharmD, CMPP (she/her)
US Medical Director, Immunology Franchise
Next Gen Immunology - North America
Specialty Care

US MEDICAL

RARE BLOOD DISORDERS

OVERVIEW

Rare Blood Disorders in Sanofi is composed of marketed products across Hemophilia A and B, iTTP, and ITP with pipeline assets in Sickle Cell Disease and WAIHA.

GOAL

The US Rare Blood Disorders Medical Fellowship program is designed to give you a well-rounded understanding of US Medical Affairs by fully integrating as a member of our RBD Medical team. The core focus is on mastery of the necessary skills and behaviors to be a successful Medical Science Liaison. The secondary focus is to gain additional experience working on high impact projects across the other medical functions, including Medical Director, Medical Operations, and Training.

OBJECTIVES

1. Participate in new hire training curriculum and complete MSL certification in one of two areas of focus- Hemophilia or Rare Hematology.
2. Work closely with MSL mentors to gain skills in effective communication of scientific data, application of medical strategy, and engagement with external stakeholders in 1:1 and group settings.
3. Learn to effectively gather and analyze key medical insights and support Congress scientific coverage.
4. Support field medical excellence initiatives by mastering medical affairs systems and processes along with development of metrics and reporting on key impact indicators.
5. Work collaboratively with Medical Directors to set objectives and strategy and build specialized resources and tactics to support effective execution of those strategies.
6. Develop learning objectives and resources for training and continuing education for the Medical Affairs team.
7. Support with critical congress strategy, planning, and resource development.

SANOFI COMPONENT

Medical Science Liaison

- Training and certification in Rare Hematology or Hemophilia
- Development of training and new resources
- Support clinical insights gathering and analysis
- Congress planning and coverage

Headquarters Medical

- Support development medical objectives and strategies for therapeutic areas in RBD
- Mastery of Medical Affairs systems & processes including budgets, customer relationships management solution, and Medical Reviews
- Understanding and implementation of key impact measurements for Senior Leadership
- Support the development of strategy, tactics and execution of advisory boards
- Support clinical operations serving as project manager for pipeline clinical trials

Proposed Timeline of projects and activities planned for the fellow

- Program will be for 2 years
 - Field Medical
 - Home office medical (Medical Director & Medical Operations & Training)

Longitudinal Projects

- MSL certification and therapeutic area training
- Development and execution of field & home office training initiatives
- Support development of medical objectives and strategy development with Medical Directors
- Congress planning & development of post-congress report
- Implementation of key field based medical excellence initiatives
- Resource development for training and HCP engagements
- Clinical operations co-lead

IDEAL CANDIDATE

- Biomedical PhD- preferably in the benign hematology space (but not mandatory)
- Good understanding of medical affairs; if no experience, enthusiasm and openness to learn
- Ability to work both independently and cross-functionally within a team environment
- Ability to problem solve and manage issues with a solution- focused approach
- Ability to work in a dynamic environment and is comfortable navigating ambiguity to drive innovative solutions
- Strong collaborative communications skills including the ability to engage with a diverse internal and external client base and find ways to manage through conflict
- Agility in the application of new digital solutions
- Must have permanent US work authorization

LOCATION

Cambridge, MA

Preceptor



Dina Issa, PharmD
US Medical Director,
Rare Hematology

CORPORATE AFFAIRS

HEALTH EQUITY STRATEGY

OVERVIEW

The Health Equity Strategy team works to strengthen how Sanofi engages with patients, communities, and external stakeholders to help advance more equitable healthcare outcomes. The team is highly collaborative and offers a unique opportunity to work at the intersection of strategy, communication, partnership development, and community engagement. Fellows are exposed to enterprise-wide initiatives, executive visibility, and meaningful projects that connect business priorities to real-world impact.

GOAL

The fellow will support initiatives above brand across Sanofi. Projects may include supporting strategic partnerships, contributing to internal health equity learning and communication initiatives, assisting with engagement strategies tied to community and advocacy organizations, and helping develop tools and resources that support enterprise health equity priorities. The role provides broad exposure to how Corporate Affairs supports both business strategy and patient/community impact.

OBJECTIVES

1. Supports the development and execution of health equity and external engagement initiatives across the organization.
2. Collaborates with cross-functional teams including Communications, Patient Advocacy & Public Affairs, Medical, Commercial, and Clinical Development.
3. Contributes to strategic partnerships with external organizations and advocacy groups.
4. Assists with the creation of internal communications, presentations, learning materials, and strategic resources related to health equity initiatives.
5. Participates in planning and execution of meetings, workshops, conferences, and stakeholder management.
6. Analyzes trends, insights, and stakeholder feedback to help inform strategic planning and engagement efforts.
7. Develops project management, communication, and strategic thinking skills through ownership of key initiatives and deliverables.
8. Gains exposure to how Corporate Affairs supports enterprise priorities, reputation, patient engagement, and organizational impact within the pharmaceutical industry.

IDEAL CANDIDATE

- MPH or other advanced healthcare, scientific, public health, communications, or related degree preferred.
- Demonstrates interest in the pharmaceutical industry, Corporate Affairs, health equity, public health, external engagement, patient advocacy, or healthcare strategy preferred.
- Strong written and verbal communication skills with the ability to communicate effectively across diverse audiences and stakeholders.
- Demonstrates ability to work collaboratively in a fast-paced, cross-functional environment while managing multiple priorities and projects.
- Strong analytical, organizational, and problem-solving skills with attention to detail and strategic thinking capabilities.
- Experience in research, leadership, community engagement, professional organizations, healthcare initiatives, or project management preferred.
- Intellectual curiosity, adaptability, professionalism, and a proactive mindset with a willingness to learn and contribute to innovative initiatives.
- Proficiency in Microsoft Office Suite (PowerPoint, Excel, Word, Teams) and comfort working with presentations, communications materials, and strategic deliverables preferred.

Preceptor



Tanisha Sullivan
Head External Engagement
US Health Equity Strategy
and MA Government Affairs

LOCATION

Washington, DC

NON RECRUITING

2-Year Fellowships

Diversity and Inclusion in Clinical Trials:



PRECEPTOR

Monique Adams
Global Head, D&I in
Clinical Trials



PRECEPTOR

Siobhan M. Gallagher
Director, U.S. Country Lead, D&I
Clinical Trials

Business Analyst, Clinical Data & AI processing



PRECEPTOR

Andre Couturier
Global Head, Analytics and
Reporting Technology

Clinical Science & Operations



PRECEPTOR

David Dexter
Project Management Project
Lead



PRECEPTOR

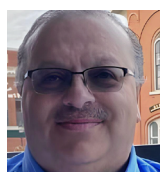
Monica Freese
Business and Project
Performance Head

US Drug Metabolism and Pharmacokinetics



PRECEPTOR

Joshua Dekeyser
Senior Distinguished Scientist,
Head of QP Research Projects, US



PRECEPTOR

Majid Vakilynejad
Global Head of Research
Pharmacometrics

Global Oncology (Immuno- oncology cluster)



PRECEPTOR

Aleksandra Nowicka
Senior Principal Scientist I,
Lab Head

Neuronal Physiology



PRECEPTOR

Timothy Hammond
Timothy Hammond



PRECEPTOR

Agnes Cheong
Senior Scientist
Neuroinflammation

Non-Clinical Bioanalysis-Mass Spectrometry



PRECEPTOR

Padmanabhan Eangoor, Ph.D
Senior Principal Scientist]



Leadership Team

Executive Sponsor

- Lisa Landstein

Fellowship Lead, Sanofi & Howard University Fellowship, Howard University Stakeholder

- Fernanda Montes Araujo

Sanofi Steering Committee

- Rebecca Mengue, PharmD
- Michelina Marotta
- Dexter David
- Cynthia Sadera, PharmD
- Jessie Ross, PharmD
- Justin Lee
- Avare' Smith, PharmD, MHSA
- Brea Stephens, PharmD, MHSA
- Chiamaka Okereafor, PharmD
- Ankita Chittiprolu, PharmD
- Taylor Richardson, PharmD, MS
- Jessica Yoon, PharmD
- Alvina Okafor, PharmD

Howard and Sanofi Company Representative

- Avare' Smith, PharmD, MHSA
- Brea Stephens, PharmD, MHSA
- Chiamaka Okereafor, PharmD
- Ankita Chittiprolu, PharmD
- Taylor Richardson, PharmD, MS
- Jessica Yoon, PharmD

Howard/Sanofi Fellowship Recruitment Liaison

- Alvina Okafor, PharmD

Brochure Committee

- Avare Smith, PharmD
- Angela Lee, PharmD
- Brea Stephens, PharmD
- Elias Nowroozi, PharmD
- Chiamaka Okereafor, PharmD

Sanofi Orientation Committee

- Micah Grey, PharmD and Elias Nowroozi, PharmD

Lunch and Learn Leads

- Micah Grey, PharmD
- Mariama Kamara, PharmD
- Rebecca Mengue, PharmD



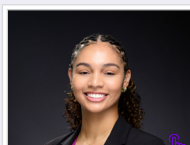
Meet & Connect *with the Fellows*



**ANKITA
CHITTIPROLU**
Global Regulatory Affairs
Strategy- General Medicines Unit
University of Michigan



**AYZA
CROSKEY**
Global Oncology Research
Chemical Biology PhD
University of Michigan



**A'LEXUS
GILBERT**
Global Regulatory Affairs
Strategy- General
Medicines Unit
Campbell University



**MICAH
GREY**
US Medical, Rare Blood
Disorders
Auburn University



**MARIAMA
KAMARA**
Global Medical - Immunology
Rutgers University



**ANGELA
LEE**
Global Medical Affairs,
Immunology
UNC Eshelman School of
Pharmacy



**KELLY
NGUYEN**
Global Regulatory Affairs
Labeling Fellow
Virginia Commonwealth
University



**PHI
NGUYEN**
US Medical Next
Gen Immunology
Harvard University



**ELIAS
NOWROOZI**
US Medical Affairs
Temple University School
of Pharmacy



**FUNMILOLA
OLATERU-OLAGBEGI**
Clinical Development,
Immunology & Inflammation
Notre Dame of Maryland
University and Johns Hopkins
Bloomberg School of Public
Health



**ANGELA
OJIMBA**
Global Regulatory Affairs
Strategy- General Medicine
Northeastern University



**ALVINA
OKAFOR**
Global Regulatory Affairs
Labeling- Specialty Care
Howard University
College of Pharmacy



**CHIAMAKA
OKEREAFOR-OBIKE**
Early Clinical Development
University of Maryland
Baltimore School
of Pharmacy



**ABEL
OWUSU**
US Medical, Rare Blood
Disorders
Howard University College of
Pharmacy



**TAYLOR
RICHARDSON**
Clinical Sciences and
Operations Fellow
Mercer University



**AVARE
SMITH**
Clinical Science and Operations
Xavier University
of Louisiana



**BREA
STEPHENS**
Diversity in Clinical Trials -Clinical
Science & Operations
Xavier University
of Louisiana



**JESSICA
YOON**
Global Medical Next Gen
Immunology Respiratory
Rutgers University

Fellows' Perspectives



The Howard University-Sanofi fellowship has been pivotal to my growth in regulatory strategy. I've gained hands-on experience navigating complex FDA and EMA pathways, from breakthrough therapy analysis to scientific advice meetings and submission management. Working on meaningful projects alongside talented colleagues, I've grown from observer to trusted team member. The supportive mentorship and collaborative environment encouraged me to take initiative and contribute to real-world regulatory decisions. This experience has solidified my passion for regulatory science and equipped me with the strategic expertise needed for the pharmaceutical industry.

- Angela Ojimba

My experience as a fellow with Howard University and Sanofi has been incredibly rewarding. Throughout the fellowship, I have deepened my understanding of medical strategy while gaining hands-on experience across key medical affairs deliverables as part of a global medical dermatology team I have both led and contributed to initiatives such as global congress strategy, while supporting advisory boards and broader strategic planning efforts that inform medical priorities. These experiences have strengthened my skills in strategic thinking, scientific communications, stakeholder engagement, and cross-functional collaboration. The program has been intentional in providing meaningful exposure to core medical affairs responsibilities, allowing me to take ownership of impactful work and grow professionally.

- Mariama Kamara

My experience as a Clinical Development Fellow in the Sanofi and Howard University Fellowship Program has been nothing short of transformative. I've had the opportunity to work closely on clinical protocols, implement protocol amendments, review trial data, and engage with health authorities, getting a true front-row seat to clinical development in action. I've also had the privilege of leading KOL engagements at major international conferences, which has really sharpened how I communicate complex science. What has made this experience even more meaningful is the incredible support system the program provides, from lunch and learn sessions that have broadened my understanding of the industry across different functions, to Howard's professional development workshops covering soft skills, leadership, and even AI in pharma. Overall, this fellowship has prepared me to confidently contribute to clinical trial development and advance patient-centric solutions in the pharmaceutical industry.

- Chiamaka Okerefor-Obike

ABOUT HOWARD UNIVERSITY

FELLOWSHIP PROGRAM

The Howard University College of Pharmacy (HUCOP) stands as the singular college of pharmacy in our nation's capital, a legacy that dates to 1868. Since our establishment, HUCOP has been a stalwart provider of pharmacy education, consistently nurturing leaders who go on to make their mark on the global stage.

At HUCOP, our focus remains delivering a contemporary pharmacy education while paving new paths through scholarship, research, and professional growth.

Our distinction as the top ranked HBCU Pharmacy Program, as recognized by U.S. News & World Report is proof of our unwavering commitment to excellence across various domains.

Envisioned in 2012, the pioneering HUCOP Pharmaceutical Industry Fellowship Program places a special emphasis on "taking the limits off" our fellows while taking them from "success to significance". We seek candidates that represent America and the Global community. They must have a proven track record of excellence, exceptional communication skills both written and oral, a receptive aptitude for mentorship, and an innate reservoir of leadership potential primed for future C-suite consideration.

Structured as immersive experiences spanning one to two years, our post-doctoral fellowships empower participants with hands on training in academic, biopharmaceutical, clinical, medical, corporate, research and regulatory spheres.

We extend our gratitude to our valued partners, dedicated preceptors, and diligent staff members. Their commitment to guiding fellows through role modeling, coaching, and professional advancement remains instrumental to our shared success.

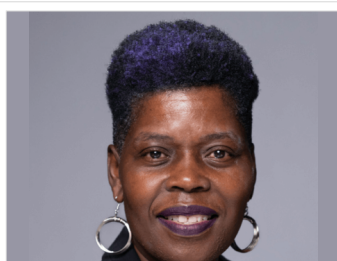
Excellence in Truth and Service,

Dr. Earl B. Ettienne
Fellowship Director
HUCOP Fellowship Program Team



**EARL ETTIENNE, BSC, PHARM.,
MBA, L.P.D., RPH**
Fellowship Director and Assistant Dean

Graduate Programs & Industrial Partnerships
Co-Chair Medical IRB, Associate Professor
Howard University College of Pharmacy



MRS. CHRISTINA FLOOD
Fellowship Budget Analyst

Graduate Programs & Industrial Partnerships
Howard University PACE Center



DR. JACQUIE ANGLIN-DIXON, MBA, RPH
Fellowship Assistant Director

Assistant Director of Graduate Programs
& Industrial Partnerships
Howard University College of Pharmacy



Howard University was founded in 1867. Soon after, Pharmacy instruction at Howard University began in the “Department of Medicine” in 1868. The initial program, held in the evening, offered students a “knowledge of the art and science of pharmacy”. As a result of this program, in 1870, the first graduate of Howard University, James Thomas Wormley, received the Doctor of Pharmacy degree from the Medical Department. During the same year, the pharmaceutical program was differentiated from the medical program, and by 1882, the Medical Department consisted of the College of Medicine, the College of Pharmacy and the College of Dentistry. Since this early beginning, the College of Pharmacy has been among the leaders in the preparation of individuals for rewarding careers in pharmacy.

The College of Pharmacy currently offers an entry level four-year Doctor of Pharmacy (Pharm.D.) degree program, a two-year post-B.S. Pharm.D. degree program, a Non-traditional Pharm.D. degree program, and the M.S. and Ph.D. degrees in Pharmaceutical Sciences.

Consistent with the mission of Howard University, the College’s mission is to provide pharmaceutical education of excellent quality to students with high academic, scholarship and leadership potential, with particular emphasis upon the recruitment, retention, and graduation of promising African American and other minority students.



HUCOP PHARMACEUTICAL INDUSTRY FELLOWSHIP PROGRAM

Fellowship Program Mission & Values

PURPOSE

Howard University College of Pharmacy Pharmaceutical Industry Fellowship Program (HUPIF) serves to develop fellows with competency and the skill set necessary to serve as integral leaders in academia, biopharmaceuticals, policy, research, and U.S. Food and Drug Administration (FDA). Our fellows will participate in cutting-edge projects and provide expertise on unique patient health challenges in partnership with their respective fellowship programs.

MISSION

We strive to provide premiere professional development fellowships to candidates with high academic, scholarship, and leadership potential, with particular emphasis upon the recruitment, retention, and graduation of promising African American and other ethnically diverse minority fellows.

VISION

We aim to be a model for academic-industrial partnerships in the development of highly talented, innovative post-doctoral professionals from minority ethnicities that make impactful and transformative support to the organizations and the communities that they serve.

VALUES

We value diversity, integrity, professionalism, collaboration, cultural competence, and a commitment to excellence.



APPLICATION & RECRUITMENT *PROCESS*

ELIGIBILITY CRITERIA:

To be eligible for a Pharmaceutical Industry Fellowship at HUCOP, candidates should have graduated from an accredited College/University with a Pharm.D. or PhD, in Pharmaceutical Sciences or related life sciences discipline, or will be by the start of the Fellowship.

Candidates must hold a degree as of July 1st of the Fellowship term.

APPLICATION REQUIREMENTS:

- Curriculum Vitae
- Letter of Intent
- Three Letters of Recommendations
- Transcript of PharmD/PhD
- Coursework

2026 ENTRY APPLICATION

Opens on September 1, 2026

Must be completed by
November 1, 2026

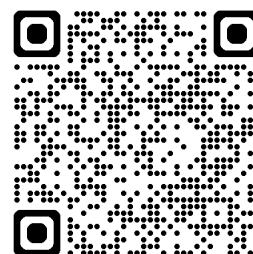
*Interviews are conducted
on a rolling basis*

HOW TO APPLY:

Interviews are conducted on a rolling basis, interested candidates may submit their supporting materials no later than 11/01/2026.

Interested candidates may submit their application and supporting materials by scanning the QR code or visiting our application form and portal:

[HUCOP Pharmaceutical Industry Fellow
Position Application Form and Portal](#)



CONTACT INFORMATION

Program Email: pharmacy.fellowship@howard.edu

Website: <https://pharmacy.howard.edu/fellowship-programs>



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