



MASSACHUSETTS COLLEGE of PHARMACY
and HEALTH SCIENCES



Biopharmaceutical Industry PharmD Fellowships

Unique Fellowships, Endless Opportunities



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A Message from Priya Singhal, Head of Development

Dear Prospective Biogen Fellow,

Thank you for your interest in the Biogen Post-PharmD Fellowship Programs. Now more than ever, the growing biopharmaceutical industry provides a tremendous opportunity for pharmacists looking for an alternative and diverse career. Since the start of this fellowship in 2007, Biogen, in collaboration with MCPHS, has trained and promoted the role of the Doctor of Pharmacy within the company, academia, and the industry. Fellows completing this program grow professionally, in terms of skills and expertise, and have substantially impacted programs integral to the success of Biogen.

As one of the world's first global biotechnology companies, Biogen has led innovative scientific research to help patients with unmet medical needs since our founding in 1978. Biogen has developed the first approved treatment for spinal muscular atrophy, the first approved treatment targeting an underlying cause of genetic ALS and co-developed two treatments to address a defining pathology of Alzheimer's disease and we continue to be at the forefront of innovation to advance patient care and experience. With a priority on Neurology, Specialized Immunology, and Rare Disease, we pioneer neuroscience and drive innovation with a mission to defeat the most complex and devastating diseases. We embody the Biogen elements on being customer focused, inclusive, pioneering, agile, accountable, and ethical.

Our passion and focus go beyond improving the lives of patients and extends to supporting the local community, nurturing science education for students of every age, and maximizing our environmental sustainability. We are at an exciting time at Biogen and are committed to pursuing science that truly matters.

I strongly encourage you to consider the Biogen Fellowship and the breadth of opportunities within our programs. Best of luck in the fellowship selection process, and I wish each and every one of you a safe and healthy journey.



Sincerely,

A handwritten signature in black ink that reads "P. Singhal".

Priya Singhal, M.D., M.PH.
Head of Development





About the Fellowship

Our **MISSION** is clear.
We are **PIONEERS** in neuroscience.



ABOUT BIOGEN

Biogen is a leading global biotechnology company that pioneers science and drives innovation for complex and devastating diseases. The company has a strong scientific and innovation legacy, and has been a leader in neuroscience, with a purpose-driven culture focused on patients.

Biogen has developed multiple breakthrough innovations including a broad portfolio of medicines to treat multiple sclerosis, the first approved treatment for spinal muscular atrophy, the first approved treatment targeting an underlying cause of genetic ALS and co-developed two treatments to address a defining pathology of Alzheimer's disease.

Today, Biogen is advancing a pipeline of potential therapies across neurology, neuropsychiatry, specialized immunology, and rare diseases. Check out the complete Pipeline overview [here](#).

Current Disease State Areas of Research

Alzheimer's
Disease and
Dementia

Neuropsychiatry

Specialized
Immunology

Neuromuscular
Disorders

Parkinson's
Disease and
Movement
Disorders

Multiple
Sclerosis
(MS)

Neurovascular

Genetic
Neurodevelopment



ABOUT THE FELLOWSHIP

Biogen, in collaboration with MCPHS University, offers seven unique fellowship programs to promote the role of the Doctor of Pharmacy (PharmD) within the biopharmaceutical industry:

- Regulatory Strategy
- Regulatory Strategy-Advertising and Promotion
- Regulatory Strategy-Global Medical Writing
- Worldwide Medical
- US Medical
- Therapeutics Development
- US Marketing

Fellows will gain extensive experience through a variety of practical activities in both industry and academic settings, which will enhance the potential for accelerated career development.





REGULATORY SCIENCES – REGULATORY STRATEGY

About Regulatory Strategy

Regulatory Strategy at Biogen is an integral part of global development, providing strategic guidance to programs across the spectrum of development and commercialization. As a leader in neuroscience, Biogen encourages innovation across all aspects of drug development, including regulatory strategy. Regulatory Strategy at Biogen is continually looked to for new and risk-forward approaches. This spirit of pioneering is the ideal background for a PharmD fellow to challenge themselves and grow as a professional.

Fellows in this program will gain valuable hands-on experience working on programs that span the development lifecycle. By working directly with experienced regulatory professionals, fellows will learn the fundamentals of regulatory strategy and form the foundation for a successful career. In addition, fellows may have the opportunity to work on department-wide initiatives that span multiple drug development programs.

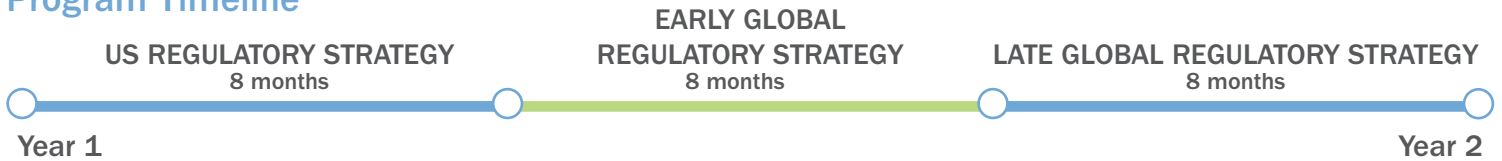
Elective Options

In addition to these core functions, the fellow will have an opportunity to spend several months in an optional elective in another department within Biogen, either within regulatory or another functional area.

Fellowship Contact Information

RegFellowship@biogen.com

Program Timeline



Program Director



“As a past fellow and current employee, I can attest that Biogen provides an ideal learning environment for those interested in establishing their identity as regulatory professionals. With preceptors that prioritize personal and professional growth, this fellowship remains a premier option for future industry leaders.”

Hannah Hoseyni, PharmD, RPh
Senior Manager, Regulatory Strategy

Second-Year Fellow



“The Regulatory Strategy fellowship is uniquely set up to offer the fellow a breadth of experiences across early and late-stage programs, as well as with the US and Global teams. Biogen’s robust portfolio and the rotational opportunity within the fellowship both allow for vast yet immersive exposure for the fellow. With a large amount of mentorship from an incredibly passionate team, opportunities for growth and self-driven exploration, and support from cross-functional team members, I am confident the fellowship will allow me to lay a solid foundation for my career within the biopharmaceutical industry.”

Neha Nadkarni, PharmD, RPh
Rutgers University, Ernest Mario School of Pharmacy

First-Year Fellow



“The Regulatory Strategy fellowship has given me the skills to work through all stages of the drug development cycle. The elective rotation opportunity will allow me to diversify my skillset within another functional area to allow me to become a well-rounded individual. I am so grateful to be surrounded by mentors and like-minded professionals who will guide and support me throughout this process to become a successful industry professional. I am looking forward to these next two years at Biogen!”

Veedhi Shah, PharmD
Midwestern University College of Pharmacy, Glendale



REGULATORY SCIENCES – AD/PROMO

About Advertising and Promotion

Regulatory Advertising and Promotion (Reg AP) is one of the functional groups within the Regulatory Sciences organization that support Biogen's development and commercial programs. The Reg AP team is responsible for providing Biogen with strategic, high-quality, timely, and decisive regulatory advice on advertising and promotional materials, communications, and company activities in accordance with FDA and global health authority regulations, company policies, and business goals. The Reg AP group leads communications with regulatory agencies related to US advertising and promotion.

This 2-year Reg AP fellowship is designed to provide advanced, hands-on experience. The fellowship provides Reg AP professionals with comprehensive knowledge of regulations and real-world applications for advertising and promotion in the biopharmaceutical industry.

Regulatory AP is an area in which skills cannot be obtained solely from a professional degree; instead, the necessary knowledge is gained predominantly through on-the-job training and hands-on experience.

Biogen recognizes this critical need for experienced Regulatory AP professionals and has partnered with the marketing department to offer a fellowship with opportunities to experience and learn the following:

- the FDA regulations that govern advertising and promotion
- how to apply regulations and provide guidance accurately and effectively
- how promotional materials are developed through the commercial organization

The overall goal of the program is to prepare each fellow to be a successful Reg AP professional with a solid understanding of how FDA regulations are followed by the biopharmaceutical industry and enforced by the FDA. Upon completion of the fellowship, the experienced fellow will be well-prepared to enter an advanced career in Reg AP.

Elective Options

The fellow will have the opportunity to select electives in other departments within Biogen, typically lasting 3 months each. Departments may include, but are not limited to:

- US Product Marketing
- Worldwide Medical
- US Medical Affairs
- Market Access and Reimbursement
- Global Commercial Strategy
- Health Economics and Outcomes Research
- Global Safety
- Regulatory Strategy
- Customer & Market Insights

Fellowship Contact Information

RegAPFellowship@biogen.com



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Program Timeline



Program Director



“The Regulatory Sciences Advertising and Promotion Fellowship offers the opportunity to learn about and gain practical experience with applying FDA regulations and guidance to the development of competitive and compliant promotional material for health care providers and patients. The fellowship features participation with cross-functional asset review teams and hands on experience reviewing and discussing materials with the review committees. The Advertising and Promotion team is very passionate about their roles and the group as a whole is committed to providing a practical educational and training experience that will prepare fellows with the knowledge and experience required to successfully begin a career in Regulatory Advertising and Promotion.”

Stephen Shinall, PhD

Director, Regulatory Affairs

First-Year Fellow



“The Regulatory Sciences Advertising and Promotion Fellowship is designed to support the fellow in developing a core foundation in advertising and promotion. It provides opportunities to engage with cross-functional teams for the review of marketing materials. The program offers a marketing and elective rotation which allows for growth through exposure of areas of interest. The team is comprised of knowledgeable leaders who mentor the fellow throughout their learning and development. Along with opportunities for hands on learning experiences, the fellow will be equipped with the tools needed to succeed in this role.”

Marla Quintana, PharmD

MCPHS Boston, School of Pharmacy



REGULATORY SCIENCES – GLOBAL MEDICAL WRITING

About Global Medical Writing

Biogen's Medical Writing Fellowship will focus on clinical and regulatory documents needed for drug development. Over the course of 2 years, the fellow will work with teams that include physicians, statisticians, clinical pharmacologists, and other scientists to create the documents needed to support the conduct and reporting of clinical trials, as well as the documents needed to obtain and maintain marketing authorization for therapies.

In the first year, the fellow will develop documents at the level of an individual clinical study of for a potential new drug. These documents will include the clinical study protocol and the clinical study report needed to conduct and describe the data from the study, respectively. As part of the cross-functional team of scientists and physicians, the fellow will learn about the purpose, structure, and components of a protocol, and the process required to develop and adapt the protocol during the course of a study.

The fellow will also become familiar with the interpretation and reporting of the clinical data, the purpose of the clinical study report, and the importance of the data in this document to stakeholders.

Working within cross-functional teams provides exposure to the different scientific and medical functions within drug development and knowledge of how they collaborate on clinical studies. Also, developing an understanding of how the study-level documents are created will provide the fellow with the foundation needed to understand how individual studies support the overall drug development process.

In the second year, the fellow will work on program-level documents that are required to support all studies within a drug development program or to support the submission of data to regulatory authorities for marketing authorizations. This will allow the fellow to gain experience with a wider variety of documents and an understanding of their function within the broader context of drug development.

Elective Options

The fellow will have the opportunity to spend up to 4 months in another department within Biogen. Departments may include, but are not limited to:

- Global Clinical Operations
- Global Regulatory Labeling
- Global Safety
- Regulatory Strategy
- Scientific Communications
- Worldwide Medical

Fellowship Contact Information

GMWFellowship@biogen.com

Program Timeline



Program Directors



“The Biogen Medical Writing fellows are afforded the opportunity to gain experience across the drug development spectrum through the production of regulatory medical writing documents.”

Katherine Bricceno, PhD

Associate Director, Global Medical Writing



“The Global Medical Writing fellowship provides hands-on experience to fellows looking to gain an understanding of drug development and the preparation of regulatory submissions. Through cross-functional collaboration, the fellows lead development of various deliverables to support life-enhancing therapies.”

Melissa Laracy, PharmD

Principal Medical Writer, Global Medical Writing

Second-Year Fellow



“The Global Medical Writing Fellowship offers unique opportunities to be involved in every stage of drug development. Fellows acquire a breadth of experience collaborating cross-functionally and producing key clinical and regulatory deliverables, ultimately refining their skills in leading a team through document lifecycles. This program equips fellows with supportive mentors and a strong foundation to kickstart a career in the biopharmaceutical industry.”

Peter Kim, PharmD

Rutgers University, Ernest Mario School of Pharmacy

First-Year Fellow



“Biogen’s Global Medical Writing fellowship program embodies a diverse network of individuals who are passionate, considerate, and supportive of my professional development. As experienced guides into the world of medical writing, they provide all the tools needed to succeed and develop a holistic view of the drug development spectrum.”

Sarah Das, PharmD

MCPHS Boston, School of Pharmacy



WORLDWIDE MEDICAL

About Worldwide Medical

Worldwide Medical's (WWM) vision is to serve as the translational bridge between science, the healthcare community and patient care. Inside Biogen, WWM is a resource for effective data generation, scientific communication and education. Externally, we are scientific partners to medical experts, physicians and patients, explaining the meaning behind our cutting-edge research data, collaborating on research studies and discovering unmet patient needs for our current and next-generation therapies.

During the first year of the WWM fellowship program, the fellow will have the opportunity to explore different functional areas within WWM. If desired, the fellow will have the opportunity to select one rotation outside of WWM to obtain a cross-functional perspective and understanding of how Biogen collaborates internally. For the second year of the fellowship, the fellow will pick an area of concentration within WWM to prepare for a career within the biopharmaceutical industry.

Fellowship Contact Information

WWMFellowship@biogen.com



Core WWM Rotation may include *Choose at least 3*

- Scientific Communications
- Medical Directors Office
- Medical Information
- Congresses and Digital Communications
- Field Medical Strategy and Execution
- Biogen Digital Health
- Medical Operations & Effectiveness

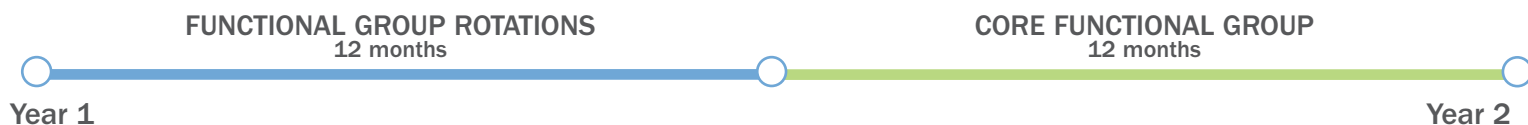
Optional Elective Rotations may include *Choose up to 1*

- Value & Access
- Commercial Marketing
- Clinical Development
- Business Development
- Supply Chain Management
- Regulatory Affairs
- Safety and Benefit Risk Management
- Customer & Market Insights

Longitudinal Rotation *Choose 1*

- Preferably in Core WWM function previously completed by the fellow in Year 1

Program Timeline



Program Directors



“In the Worldwide Medical fellowship program, fellows have the unique opportunity to get hands-on experience on meaningful projects across Global Medical Affairs. The rotational structure of the program allows for an immersive experience across various functions both inside and outside of Worldwide Medical, which sets the fellows up for success with a broad network as they kick off their career in the biopharmaceutical industry.”

Tyler Lasky, PharmD

Associate Medical Director, Global Medical – Multiple Sclerosis

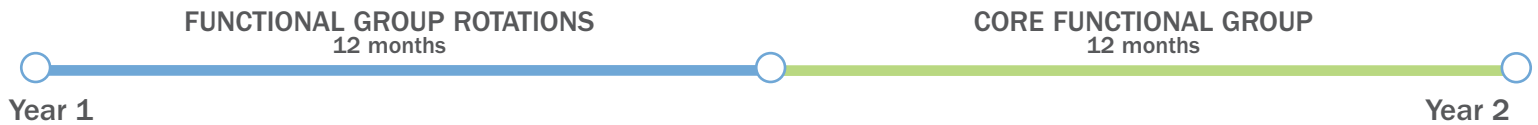


“Biogen’s Worldwide Medical fellowship is dedicated to preparing motivated fellows for a successful career in the biopharmaceutical industry. The program provides a multitude of opportunities for fellows to actively contribute to projects while expanding their knowledge across numerous critical functions in Medical Affairs. The rotational aspect of the program fosters a broader perspective across departments while expanding the fellow’s professional network.”

Margaret Chuang, PharmD, RPh

Senior Manager, Global Medical Publications – Multiple Sclerosis

Program Timeline



Second-Year Fellow



“The Worldwide Medical Fellowship program offers extensive diverse and cross-functional experiences through its rotational format, allowing the fellow to gain a comprehensive understanding of neurological advancements, key stakeholders, and scientific communication. With an incredibly passionate and knowledgeable team, the position propels the fellow to excel through impactful projects and garner an appreciation for the expansive scope of Medical Affairs.”

Sydney Yuen, PharmD

University of Maryland Baltimore, School of Pharmacy

First-Year Fellows



“The rotational aspect of the Worldwide Medical Fellowship offers an invaluable experience to deeply explore various roles within medical affairs. It also provides the chance to work outside of medical affairs for a rotation which is a paramount opportunity for professional development. I have had the opportunity to work on dynamic projects with passionate mentors which is helping me to build a strong foundation in medical affairs.”

Juliana Gassmann, PharmD

University of Colorado, Skaggs School of Pharmacy



“As someone entering the industry with an interest in learning more about the diverse teams that compose Medical Affairs, I knew this program would allow me the most flexibility to gain experience with a wide variety of teams. The structure of this fellowship allows you to immerse yourself in a panorama of opportunities pharmacists have to enact transformative change at a high level – both internally and externally.”

Mattie Hucks, PharmD

Medical University of South Carolina



US MEDICAL

About US Medical

The US Affiliate Office for Worldwide Medical (“US Medical”) is responsible for high-quality medical engagement with US healthcare entities. It is staffed with a range of clinical and scientific experts (e.g., pharmacists, physicians, clinical PhDs, bench scientists, advanced practice providers, etc.) and is organized to provide a meaningful impact through four key segments of the US marketplace: (1) health care professionals, (2) managed care, (3) formulary decision makers, and (4) the patient advocacy community. US Medical is currently responsible for medical engagement in multiple therapeutic areas including but not limited to Multiple Sclerosis & Immunology (MS&I), Neuromuscular diseases including Spinal Muscular Atrophy (SMA) and Amyotrophic Lateral Sclerosis (ALS), and Neuropsychiatry.

The 2 year US Medical Fellowship is designed for fellows to acquire the skills and experiences necessary to drive scientific thought leadership, support lifecycle management strategies and tactics, and help ensure equitable market access. During the fellowship within US Medical, the fellow will have the opportunity to undertake responsibilities such as:

- Developing and delivering disease state and product medical trainings
- Designing and executing real-world research projects
- Reviewing investigator-led research proposals
- Authoring scientific publications and payer value dossiers
- Attending scientific and managed care conferences to report key findings
- Engaging thought leaders and coverage decision makers
- Developing and reviewing promotional and marketing materials
- Assisting in planning of advisory board meetings
- Supporting product launches and asset divesting efforts
- Developing medical strategy for the field team
- Collaborating with US Commercial, Regulatory, Legal, and Global Medical

The US Medical Fellow will spend their time rotating within the US Medical Office, across functions responsible for medical engagement of health care professionals, scientists, payers, patient advocacy groups, specialty pharmacies, and health systems.

Fellows will be offered an opportunity to select a track based on their background and interests and following consultation with their Fellowship Directors. By the end of the fellowship, the US Medical Fellow will have acquired skills and experiences to pursue roles within Medical Affairs or Market Access.



Core Rotation Options

- HEOR/Access
- Multiple Sclerosis & Immunology Medical Director’s Office
- Neuromuscular Disease Medical Director’s Office

Elective Options

- US Marketing
- US Market Access and Reimbursement
- Global Value and Access
- Global Product Development and Commercial

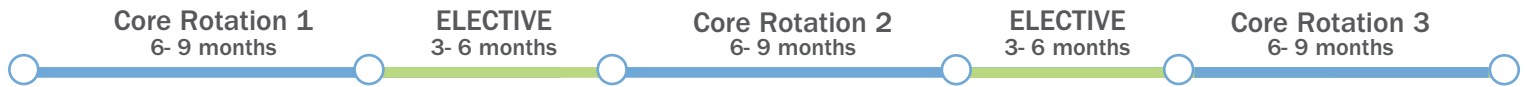
Fellowship Contact Information

Jason.mendoza@biogen.com



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Program Timeline



Potential track options include:

- 3 core rotations for 6 months + 2 electives*
- 3 core rotations for 7 months + 1 elective*
- 2 core rotations for 9 months + 2 electives*

Program Directors



“Fellows who participate in our program will have an intense immersive experience into the inner workings of a leading affiliate in a global organization. Our goal is to challenge fellows with short and medium-term projects, so they are well-suited to continue their career in the pharmaceutical industry.”

Jason Mendoza, PhD

Head of Multiple Sclerosis and Immunology, US Medical



“The Biogen US Medical Fellowship allows each Fellow to personalize their experience to optimize professional growth and learning. We prioritize mentorship, immersive learning, facilitating professional networking opportunities, and exposure to a diversity of experiences to round out the Fellow’s knowledge, skills, and abilities. Fellows are valued members of the team who are supported as champions of their learning and development journey in our program.”

Teresa Fecteau, PhD

Medical Director – Neuromuscular, US Medical

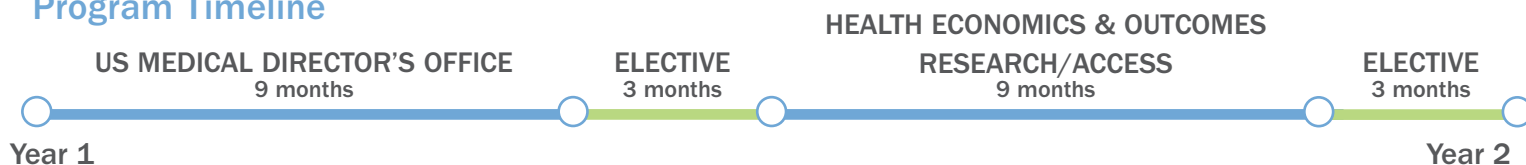


“The unique structure of the US Medical fellowship provides fellows with a broad experience to develop professionally through their time spent with the US Medical Director’s Office and HEOR/Access team. Throughout the fellowship, fellows have the opportunity to support projects that align with their professional goals, collaborate cross-functionally, and gain an understanding of various functional areas through the core and elective rotations.”

McKenzie Stratton, PharmD

Senior Manager, HEOR / Access Lead

Program Timeline



Second-Year Fellows



"The US Medical Fellowship is an invaluable opportunity that encompasses all medical experience in one. By working on both the HEOR/Access and US Medical Director's Office teams, I have been able to further understand the complexity of the US healthcare system from many lenses. This expertise is used to optimize my perception on patient access and overall health outcomes, thus propelling me for a successful future in the biopharmaceutical field."

Luna Adamo, PharmD

University of Florida, College of Pharmacy



"Biogen's US Medical Affairs/HEOR fellowship gives me the unique opportunity to gain experience on both the HEOR/Access team as well as in the Medical Directors Office. The rotational aspect of this unique fellowship will prepare me for a wide variety of careers in the pharmaceutical industry."

Sarah Cinquepalmi, PharmD

The University of Iowa, College of Pharmacy

First-Year Fellows



"The US Medical fellowship at Biogen is a diverse, rotational experience that allows me to explore multiple areas of the industry. This unique experience will expose me to a variety of projects and prepare me to work effectively in cross-functional teams. I am incredibly happy to be a part of the US Medical family!"

Babak Amerian-Williams, PharmD

St. Louis College of Pharmacy



"The unique structure of the US Medical fellowship at Biogen allows fellows to experience two key areas within medical in the US market. Fellows are valued members of each team and have the opportunity to be mentored by experienced leaders of many diverse educational backgrounds. We contribute to projects with the goal of engaging and educating stakeholders, as well as improving patient access and outcomes. These experiences will prove to be invaluable as one pursues a full-time position within industry post-fellowship."

Georgia Matz, PharmD

University of Arizona, R. Ken Coit College of Pharmacy



THERAPEUTICS DEVELOPMENT

About Therapeutics Development

The Therapeutics Development (TD) fellowship consists of rotations through Clinical Development (CD), Global Clinical Operations (GCO), and Analytics and Data Sciences (ADS). Together, these functional areas lead the creation and execution of innovative development plans and trial designs supported by cutting-edge analytics and data sciences.

The 2-year TD fellowship is designed to provide a robust, hands-on experience in drug development for global programs across the full development life cycle and therapeutic areas. During the program, the fellow will gain experience via 4-month rotations in CD, GCO, and ADS, before selecting their area of concentration for the 2nd year of the program. In addition to these core rotations, the fellow may choose to spend some time in an optional elective within Biogen, if desired. The fellowship is designed to build the foundation for a successful career in drug development.

Clinical Development: Clinical Development (CD) drives strategy, design and execution of innovative clinical development plans and studies to expedite access to safe and effective therapies for diseases with unmet medical needs.

Global Clinical Operations: Global Clinical Operations (GCO) provides operational expertise and rigor to enable world-class execution of clinical trials across the R&D clinical pipeline (from first-in-human through pivotal and post-approval studies).

Analytics and Data Sciences: Analytics and Data Sciences (ADS) brings together cross-functional expertise including Biostatistics, Data Management, Epidemiology, Programming Data Sciences and Operations, Technology, Compliance, and Standards to enable an integrated and innovative approach to accessing and analyzing data across complex development programs.

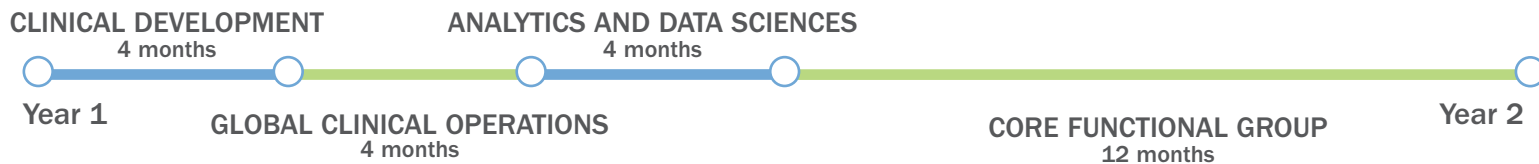
Fellowship Contact Information

TDFellowship@biogen.com



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Program Timeline



Program Directors



“As a previous fellow, I cannot emphasize enough how invaluable the Biogen MCPHS fellowship program is for the fellows and for Biogen. There is no better environment for gaining real-world drug development experience and understanding how the many pieces of the puzzle fit together. The TD fellowship program will offer the fellow a unique opportunity to rotate through three key pillars of drug development before determining their preferred area of concentration for the 2nd year. My hope is that the fellows come out of the program with the tools to navigate the biopharmaceutical industry and experiences to inform the next steps in their career path.”

Stephanie Fradette, PharmD

Senior Medical Director, Clinical Development



“One of the key factors to a strong contributor on a clinical study team is a good working knowledge of core functional area processes. The TD fellowship allows the fellow to experience several of these core functional areas firsthand, giving them a better understanding of all effort involved when executing a task in drug development. Knowing the strengths and benefits of the MCPHS fellowship program, the fellow will also gain instrumental soft skills to support their work in various team settings. I believe the fellows will emerge with a wide skill set and the confidence needed to be successful in their careers in drug development.”

Raechel Farewell, PharmD

Associate Medical Director, Clinical Development

First-Year Fellow



“The TD fellowship has offered me an unparalleled opportunity to fully immerse myself into three critical pillars of drug development. By rotating through these functional areas, I can fully exercise and expand my research and development skillset by supporting clinical programs from several cross functional perspectives. The fellowship is heavily supported by a spectrum of passionate and talented professionals with a patient-first perspective driven to recreate the landscape for diseases with unmet needs. By learning from and collaborating with professionals across the scope of drug development, this fellowship will propel me into a successful career in the biopharmaceutical industry.”

Matthew Amorin, PharmD

MCPHS Worcester, School of Pharmacy



US MARKETING

About US Marketing

Sales and marketing teams work every day, ensuring that patients, families/caregivers, and healthcare professionals have all the necessary information about medicines manufactured by Biogen. We work from a deep understanding of the science behind our therapies and the disease areas that they treat. At Biogen, marketing is essential to recognize customer needs and create best in class medicines. Biogen is rooted in a core focus on Neuroscience and currently marketing medicines in 4 therapeutic areas: Multiple Sclerosis, Rare Diseases, Alzheimer's Disease, and Neuropsychiatry. The US Marketing Fellowship at Biogen offers a unique opportunity for Fellows to learn what it takes to commercialize a medicine and have a successful career in the biopharmaceutical field. During the first year, fellows will develop an understanding of core marketing fundamentals, commercial operations, and business processes at Biogen. Fellows will work with cross-functional partners and field teams to develop a deep understanding of the patient journey and key customer insights. Fellows will take these learning and support ongoing projects as well as lead new initiatives helping to advance the strategic priorities of the brand. As fellows, lead and take on more responsibility, they will begin to learn about the US promotional review process and how to effectively execute key projects in a regulated environment. For the second –year, fellows will have the opportunity to rotate to another franchise, where they will learn a new therapeutic area, and building off their first year, will own brand projects, from ideation to execution. The US Marketing Fellowship provides PharmDs an opportunity to learn and develop critical business skills required to grow as a leader within a rapidly growing and innovative biotechnology company. This program strives to provide experiences that will launch their careers in the biotech & pharma industry.

Elective Options

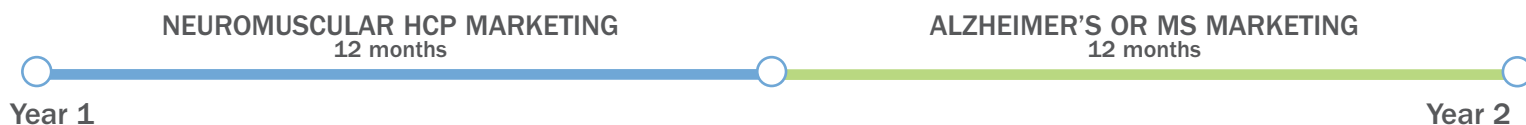
Fellow will start the 1st year off in the Rare Disease Franchise then choose their second-year rotation from the following Neuropsychiatry or MS.

- HCP Marketing
- Consumer Marketing
- Peer-to-Peer Marketing
- Payer Marketing
- Market Insights

Fellowship Contact Information

usmarketingfellowship@biogen.com

Program Timeline



Program Directors



There is nothing more exciting than commercializing innovative treatments for some of the world's most devastating conditions. There are so many elements that go into successfully bringing a new medicine to market. PharmDs are in a unique position to leverage their scientific background and clinical training into tools to aid in strategic business decisions. The US Marketing fellowship at Biogen is a wonderful opportunity for fellows to develop and hone their skills as emerging commercial leaders in the industry."

Sundip Raval, PharmD

Executive Director Rare Disease Marketing



"The US Marketing Fellowship provides Fellows with a unique opportunity to learn the fundamentals of pharmaceutical marketing and to continue to build upon and apply those learnings to make meaningful contributions across the marketing functions. This well-rounded experience provides a strong foundation for future success."

Kevin Yu, PharmD

Associate Director, Neuropsychiatry Marketing

Second-Year Fellow

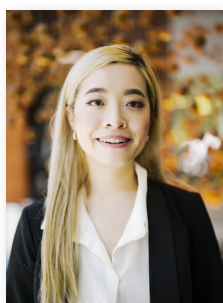


"Biogen's US Marketing fellowship gives me the unique opportunity to work closely alongside experienced leaders of the commercial function on a variety of projects within the HCP marketing space. I am blessed with a position to gain insight into the competitive market landscape of multiple disease areas such as rare disease and immunology. I get to witness firsthand the transformation of clinical trial data into commercial strategy in the real-world business setting."

Chanel Hsiang, PharmD

University of Michigan, College of Pharmacy

First-Year Fellow



"The US Marketing fellowship has provided me a great opportunity to connect with and work alongside experienced and trail-blazing professionals in the field. Through this fellowship, I've been empowered to take on projects under the guidance of great mentorship and been able to gain insights on the market of rare diseases."

Elizabeth Ling, PharmD

University of Southern California



GLOBAL SAFETY

Not recruiting

About Global Safety

Biogen is responsible for the continuous assessment of the benefit-risk relationship of all its products— starting in the early stages of development and continuing through the post-market phase. Members of the Global Safety department are constantly working to gain a better understanding of the safety profile of marketed products and those in development in order to provide the medical community and patients with the data necessary to make an informed decision regarding disease management.

This 2-year Global Safety Fellowship is designed to provide an in-depth and hands-on experience. Starting from individual case safety reports (ICSR) through aggregate reporting the fellow will learn about the pharmacovigilance life cycle. Through this program, the fellow will rotate through and gain exposure to the following two general areas:

Global Case Management: During this rotation, the fellow will become knowledgeable about the adverse event reporting process including data collection, initial review and triage, adverse event report assessment, and reporting and submissions of ICSRs. The fellow will also enhance his or her understanding of clinical trial safety, ICSR reporting requirements, global pharmacovigilance regulations and guidelines, safety data exchange agreements, and vendor oversight.

Safety Surveillance and Aggregate Reporting: During this rotation, the fellow will engage in safety surveillance activities, prepare and review signal evaluation reports, safety aggregate reports, risk management plans and be involved in other safety related documents utilizing the training and skills gained through previous rotations

First-Year Fellow



“The Global Safety Fellowship provided me with strong skills and experiences that I will carry throughout my career path. I am thankful to have the opportunity to work with passionate and accomplished professionals in various teams not just within the global drug safety, but also cross functionally. I am extremely grateful to be a part of Biogen family and to have the support from the mentors that I have had the opportunity to work with. Looking forward to continue expanding my knowledge and network throughout the 2-years fellowship journey.”

Grace Mosallam, PharmD
MCPHS Boston, School of Pharmacy



How to Apply



MASSACHUSETTS COLLEGE of PHARMACY
and HEALTH SCIENCES



ABOUT MCPHS UNIVERSITY

MCPHS University provides an academic environment to guide and support fellows toward a successful career in the biopharmaceutical industry. As a private institution with a history of specializing in the health sciences, MCPHS University offers programs that embody scholarship, professional service, and community outreach.

Through MCPHS University, the fellow will have the opportunity to gain teaching and research experience in an academic setting. Throughout the program, MCPHS University faculty and company program leaders mentor fellows according to each fellow's scholarly and professional interests.

As an adjunct assistant professor at MCPHS University, each fellow may have the opportunity to

- develop, coordinate, and teach pharmacy courses.
- co-precept students on advanced experiential rotations.
- create and publish scholarly research and review articles.
- present data at scientific and clinical meetings.
- participate in professional development seminars.



MCPHS University Faculty Preceptors



**Ameer Mistry,
PharmD, RPh**
Director,
Biopharmaceutical
Industry Fellowship
Program

Dr. Ameer Mistry is Professor of Pharmacy Practice and has been with MCPHS University since 2006. Dr. Mistry earned her PharmD at the Albany College of Pharmacy and completed a PGY1 Community Practice Residency with Walgreens and MCPHS University. In 2015, Dr. Mistry took over as Director of the MCPHS Biopharmaceutical Industry Fellowship program. She works directly with leaders in the area to continue to foster growth and development of the post-graduate program, and to assist the fellows in attaining positions within the pharmaceutical industry.

In addition, she is advisor for the student IPhO chapter at MCPHS, co-advisor for APhA-ASP, a national trainer for the APhA Pharmacy-Based Immunization training program, and is actively involved with the Massachusetts Pharmacists Association.



Michael Angelini, PharmD, BCPP
Professor of Pharmacy Practice



Cheryl Durand, PharmD
Professor of Pharmacy Practice



Phung On, PharmD, BCPS
Associate Professor of Pharmacy Practice



Michael Steinberg, PharmD, BCOP
Assistant Dean of Assessment & Professor of
Pharmacy Practice



Kristine Willett, PharmD, RPh, FASHP
Assistant Dean of Student Engagement and Success

Application Requirements

Eligibility

The MCPHS Biopharmaceutical Industry fellows will be selected on a nationally competitive basis. Applicants must have a Doctor of Pharmacy degree from an ACPE accredited college of pharmacy at the commencement of the program.

- Candidates must have strong written and verbal communication skills and a strong interest in pursuing a career within the biopharmaceutical industry.
- All candidates must have authorization to work in the United States throughout the duration of the one or two year fellowship. No visa sponsorship will be provided (i.e., TN, H-1B, STEM OPT, etc.).

Application Procedure

The MCPHS application portal (SMAApply) will open on **Monday, October 2nd, 2023**. Applicants must upload the following application materials to the online portal (<https://mcphs.smapply.io>) no later than **Friday, November 17th, 2023**:

- Letter of intent
- Curriculum vitae
- Unofficial college transcript
- Contact information for three references. References will receive an electronic recommendation form to complete separately.

Three recommendation evaluation forms must be submitted no later than **Monday, November 27th, 2023** via the online portal. This is NOT a letter of recommendation but an online form that the recommender will receive for completion from SMAApply.

Rolling Application Review & Interviews

All submitted applications will be reviewed on a rolling basis. Interviews will also be offered on a rolling basis and opportunities are limited. Priority will be given to those applicants who apply early, well in advance of the deadline. Rolling interviews will begin mid-October with pre-screens and a mixture of interview rounds, and will continue into December. Candidates will be notified if selected for an interview.

ASHP Midyear & Onsite Interviews

The fellowship program will be conducting **in-person interviews** at the ASHP Midyear Clinical Meeting in Anaheim, CA. Applicants are strongly encouraged to attend. Candidates attending in-person will not be able to interview without registering for both ASHP and PPS. Please refer to the ASHP & PPS website for registration details.

Top candidates may be invited for interviews at the sponsoring company's location.

Offer Dates

Recognizing that the choice of a Post-Doctoral Industry Fellowship is an important decision, MCPHS in conjunction with the Alliance of Industry Fellowship Associates (AIFA), has agreed to extend offers for Fellowships no earlier than **December 13th, 2023**.

We see this respect for candidate choice as a common aspect of each of our Program's cultures. We hope that other academic and non-academic Fellowship Programs will respect this timeline to allow for best program fit for candidates.

Onboarding

Final candidates will be required to go through additional screening / onboarding as required by MCPHS.

Frequently Asked Questions

Do I need previous industry experience in order to be considered for the fellowship program?

- No, previous industry experience is not required.

Do I have to be a registered pharmacist to qualify for this fellowship?

- No, but licensure is strongly encouraged. To qualify for this fellowship, you must be a graduate of an ACPE-accredited PharmD program at the commencement of the fellowship.

Will I be able to defer my student loans?

- Yes, provided that the student loan company accepts fellowship deferment. Candidates should contact their lender(s) for more information regarding eligibility and terms of deferment.

Can I apply for more than 1 fellowship at Biogen?

- Yes, we welcome potential applicants to explore all of the opportunities available at Biogen.

Is a cover letter required to request an interview?

- No, a cover letter is not needed for the initial interview request, but a letter of intent is required.

Are there any other elective options available that are not listed?

- All elective options are subject to availability. Additional options may be available depending on interest.

Previous Biogen Fellows

Regulatory Strategy–Safety and Benefit Risk Management		
	Alumnus/Alumna	Current Position
2007 - 2009	Hamdan Almas, PharmD University of California–San Francisco School of Pharmacy	Executive Director, US Marketing Kite Pharma
	Benjamin Exter, PharmD Northeastern University Bouvé College of Health Sciences	Vice President, Pharmacovigilance Cogent Biosciences
2008 - 2010	Raymond Kim, PharmD University of California–San Francisco School of Pharmacy	Medical Services Liaison Idorsia Pharmaceuticals Ltd.
	James Scanlon, PharmD, RPh Northeastern University Bouvé College of Health Sciences	Field Medical Director Pfizer
2009 - 2011	Amy Gangadharan, PharmD Northeastern University Bouvé College of Health Sciences	Director, Risk Management & Surveillance, Global Drug Safety Cerevel Therapeutics
	Stephanie Fradette, PharmD Northeastern University Bouvé College of Health Sciences	Senior Medical Director, Clinical Development Biogen
2010 - 2012	Desmond Murphy, PharmD, RPh Northeastern University Bouvé College of Health Sciences	Associate Global Medical Director Anylam Pharmaceuticals
	Sara Snow, PharmD Shenandoah University, School of Pharmacy	Head, Regulatory Affairs Sobi - Swedish Orphan Biovitrum AB
2011 - 2013	Laura Hennessey, PharmD USC Alfred E. Mann School of Pharmacy and Pharmaceutical Sciences	Independent Regulatory Consultant
2012 - 2014	Kimberly Price, PharmD, RPh MCPHS University, Worcester School of Pharmacy	Senior Director, Medical Education and Training Sage Therapeutics
	Najma Saleem, PharmD MCPHS University, Boston School of Pharmacy	Medical Director, Medical Affairs Lead (Nephrology) Amgen

Previous Biogen Fellows (Cont'd)

Regulatory Strategy-Safety and Benefit Risk Management (cont'd)		
2013 - 2015	Lauren Oliva, PharmD, RPh Rutgers University Ernest Mario School of Pharmacy	Director, Lead Digital Health Regulatory Policy Biogen
	Grace Gill, PharmD University of California, Berkeley	Director, Regulatory Affairs Liaison Gilead Sciences
2014 - 2016	Theresa Foster, PharmD, RPh University of New England College of Pharmacy	Director of Pharmacovigilance Ironwood Pharmaceuticals
	Martin Kwok, PharmD, RAC, RPh The Ohio State University College of Pharmacy	Senior Director, Regulatory Affairs Ironwood Pharmaceuticals
2015 - 2017	Colin Gillis, PharmD, MBA Northeastern University Bouvé College of Health Sciences	Director, Regulatory Affairs Beam Therapeutics
	Bhumi Patel, PharmD, MBAC University of the Sciences Philadelphia College of Pharmacy	Regulatory Global Labeling Lead (Oncology) Pfizer
2016 - 2018	Tina Chhabra, PharmD Virginia Commonwealth University School of Pharmacy	Senior Manager, Regulatory Affairs and Health Policy FDA
	Kathy Lu, PharmD University of the Sciences Philadelphia College of Pharmacy	Associate Director, Global Labeling (Oncology) Merck & Co., Inc.
2017 - 2019	Amanda Hall, PharmD Temple University School of Pharmacy	Associate Director, Regulatory Affairs Labeling Daiichi Sankyo, Inc.
	Brianne Fitzgerald, PharmD, RPh MCPHS University, Boston School of Pharmacy	Associate Director, Regulator Affairs Sage Therapeutics
2018 - 2020	Lori Sorial, PharmD, RPh MCPHS University, Boston School of Pharmacy	Senior Manager, Regulatory Strategy Moderna
	Patsy Casalino, PharmD MCPHS University, Boston School of Pharmacy	Associate Director, US Regulatory Affairs MapLight Therapeutics

Previous Biogen Fellows (Cont'd)

Global Safety

2017-2019	Michael Ryan, PharmD MCPHS University, Boston, School of Pharmacy	US Medical Director, Prostate Cancer Pfizer
2018-2020	Shrinal Patel, PharmD, RPh MCPHS University-Boston, School of Pharmacy	Senior Safety Scientist Cerevel Therapeutics, LLC
2019-2021	Abigail Gardella, PharmD MCPHS University- Manchester, School of Pharmacy	Pharmacovigilance Scientist Sanofi
2020-2022	Victoria Carr, PharmD, RPh MCPHS University - Worcester School of Pharmacy	Senior Manager, Global Safety Scientist, Medical Safety and Risk Management Agiros Pharmaceuticals
2021-2023	Anthony Rizk, PharmD MCPHS University - Worcester School of Pharmacy	Manager, Clinical Safety Scientist Moderna
2022-2024	Grace Rong, PharmD, RPh University of Pittsburgh, School of Pharmacy	Pharmacovigilance Scientist Amylyx Pharmaceuticals

Regulatory Sciences- Regulatory Strategy

2019 - 2021	Hannah Hoseyni, PharmD, RPh University of Pittsburgh, School of Pharmacy	Senior Manager, Regulatory Strategy Biogen
2020 - 2022	Sarah Park, PharmD University of the Sciences, Philadelphia College of Pharmacy	Medical Science Liaison Sanofi
2021 - 2023	Brandon Vassar, PharmD Florida A&M University, School of Pharmacy	Manager, Regulatory Affairs Advertising & Promotion Biogen

Previous Biogen Fellows (Cont'd)

Regulatory Strategy- Advertising and Promotion		
2011 - 2013	Georgina Lee, PharmD University of Southern California	Executive Director, Regulatory Affairs Advertising and Promotion Sage Therapeutics
2012 - 2013	Richard Lem, PharmD Rutgers University Ernest Mario School of Pharmacy	Director, International Regulatory Affairs, Digital and Standards Abbvie
2013 - 2015	Sheila Kundu, PharmD University of the Sciences Philadelphia College of Pharmacy	Director, Regulatory Affairs Advertising and Promotion Gilead Sciences
2014 - 2016	Victor Lai, PharmD, RPh Rutgers University Ernest Mario School of Pharmacy	Director, Regulatory Affairs Advertising and Promotion Bayer
2015 - 2017	Kate Ho, PharmD, RPh Purdue University College of Pharmacy	Associate Director, Regulatory Affairs Advertising and Promotion Gilead Sciences
2016 - 2018	Anita Kachappilly, PharmD St. John's University College of Pharmacy and Health Sciences	Senior Manager, Regulatory Affairs Advertising and Promotion
2017 - 2019	Kathleen Neumaan, PharmD MCPHS University, Boston School of Pharmacy	Associate Director, Regulatory Affairs US Advertising and Promotion AbbVie
2018 - 2020	Adaku Onwuzurumba, PharmD MCPHS University, Worcester School of Pharmacy	Associate Director Marketing (Rheumatology) UCB
2019 - 2021	Nicholas Munafo, PharmD, MBA MCPHS University – Boston School of Pharmacy	Senior Manager, US Regulatory Advertising and Promotion AbbVie
2020 - 2022	Carly Schaechter, PharmD, RPh University of Pittsburgh, School of Pharmacy	Senior Manager, Global Regulatory Advertising and Promotion Moderna
2021 - 2023	Sophia D'Alessandro, PharmD, RPh MCPHS University – Boston School of Pharmacy	Senior Manager, Regulatory Affairs US Advertising and Promotion AbbVie
2021 - 2023	LeDea Bond, PharmD Florida A&M University College of Pharmacy	Manager, Regulatory Affairs US Advertising and Promotion AbbVie

Previous Biogen Fellows (Cont'd)

Regulatory Strategy-Trial Master File/Clinical Trial Application

2016-2018	April Nguyen, PharmD, RAC, MPH University of the Pacific Thomas J. Long School of Pharmacy and Health Sciences	Senior Manager, Regulatory Affairs Biogen
2017-2019	Olivia Biasi, PharmD, RPh Notre Dame of Maryland University, School of Pharmacy	Business Solutions Manager Sage Therapeutics
2018-2020	Edwin Addai, PharmD, RPh MCPHS University, Worcester School of Pharmacy	Senior Manager, Regulatory Strategy Takeda

Regulatory Strategy-Global Medical Writing

2016 - 2018	Jihae Lim, PharmD Temple University School of Pharmacy	Associate Director, Global Labeling (Oncology) Merck
	Joseph Naggar, PharmD, RPh MCPHS University-Boston School of Pharmacy	Director, Publication Management (Oncology) Merck
2017 - 2019	Melissa Laracy, PharmD University of Connecticut School of Pharmacy	Principal Medical Writer Biogen
2018 - 2020	Jeffrey Roth, PharmD, RPh University of North Carolina, Eshelman School of Pharmacy	Senior Medical Writer Biogen
2019 - 2020	Jayvir Dabhi, PharmD, MBA MCPHS University – Boston School of Pharmacy	Senior Manager, Global Regulatory Labeling Strategy Takeda
2020 - 2022	Danielle Pete, PharmD Ohio Northern University Raabe College of Pharmacy	Associate Principal Medical Writer Biogen
2021-2023	Diana Li, PharmD, RPh University of Pittsburgh, School of Pharmacy	Senior Medical Writer Biogen

Previous Biogen Fellows (Cont'd)

Worldwide Medical		
2012 - 2014	Jonathan Kendter, PharmD, MBA University of the Sciences Philadelphia College of Pharmacy	Director, Medical Managed Care Sanofi Genzyme
2013 - 2015	Manas Prasad, PharmD University of Connecticut School of Pharmacy	Medical Science Liaison Orchard Therapeutics
2014 - 2016	Kyle Terpak, PharmD University of Michigan College of Pharmacy	Medical Science Liaison Novo Nordisk
2015 - 2017	Jonathan Wang, PharmD University of Pittsburgh School of Pharmacy	Director, Medical Communications BioCryst Pharmaceuticals, Inc.
2016 - 2018	Jinny Min, PharmD University of Michigan College of Pharmacy	Associate Director, Medical Affairs Apellis Pharmaceuticals
	Melanie Standridge, PharmD Thomas Jefferson University College of Pharmacy	Associate Director, Medical Information and Review Krystal Biotech
2017-2019	Tyler Lasky, PharmD Butler University	Associate Medical Director, Global Medical Biogen
2017-2019	Anthony Zaki, PharmD Northeastern University Bouvé College of Health Sciences	Program Director, Product Development & Commercialization Biogen
2018 - 2020	Stephanie Yin, PharmD, RPh The University of Texas at Austin, College of Pharmacy	Senior Medical Science Liaison Neurocrine Biosciences
	Tucker Ward, PharmD MCPHS University - Boston	Global Commercial Operations Biogen
2019 - 2021	Rohit Arjun Amarshi, PharmD, RPh Keck Graduate Institute, School of Pharmacy and Health Sciences	Medical Science Liaison ANI Pharmaceuticals, Inc.

Previous Biogen Fellows (Cont'd)

Worldwide Medical (cont'd)

2019-2021	Melissa Kang, PharmD The University of Texas at Austin, College of Pharmacy	Medical Science Liaison Biogen
2020-2022	Emily Boesch, PharmD University of North Carolina Eshelman School of Pharmacy	Senior Manager, Global Scientific Communications Biogen
2021-2023	Kinyee Fong, PharmD University of California, San Francisco	Senior Manager, US Medical Biogen
	Hannah Adair, PharmD, RPh The University of Texas at Austin, College of Pharmacy	Medical Science Liaison Biogen
2022-2024	Isaac Yun, PharmD Northeastern University Bouvé College of Health Sciences	Medical Science Liaison AbbVie

US Medical (Previously Real-World Outcomes, Innovative Partnerships, and Insights)

2015 - 2017	Kun Yang University of Maryland School of Pharmacy	Co-Founder and CEO Pricklee
2016 - 2018	Jaanai Babb, PharmD Rutgers University Ernest Mario School of Pharmacy	Director, Market Access Strategy Sage Therapeutics
2017 - 2019	Alysa Redlich, PharmD, MBA University of Rhode Island College of Pharmacy	Associate Director, Medical Information Biogen
2019 - 2021	Jenna Borowski University of Pittsburgh, School of Pharmacy	Senior Manager, Payer Marketing Apellis Pharmaceuticals
	Auston Collins The Ohio State University, School of Pharmacy	Manager, Global Scientific Communications Biogen
2020 - 2022	Mary Zhang, PharmD University of Maryland School of Pharmacy	Medical Science Liaison Sanofi

Previous Biogen Fellows (Cont'd)

US Medical (Previously Real-World Outcomes, Innovative Partnerships, and Insights) (cont'd)

2020 - 2022	Donald Smith, PharmD, RPh University of Kansas, School of Pharmacy	Medical Science Liaison Kyowa Kiren
2021 - 2023	McKenzie Stratton, PharmD University of Arizona, School of Pharmacy	Senior Manager, HEOR/Access Biogen

Therapeutics Development

2020 - 2022	Julia Heo, PharmD University of Pittsburgh School of Pharmacy	Senior Clinical Scientist, Clinical Development Biogen
2021 - 2023	Dalton Lovins, PharmD, MS University of Kentucky, School of Pharmacy	Senior Manager, Global Medical Affairs (ALS) Biogen
2022-2024	Christopher Nguyen, PharmD, RPh Chapman University, School of Pharmacy	Manager, Clinical Sciences (Oncology) Regeneron



Thank you for considering the Biogen PharmD Fellowship Program

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