



MASSACHUSETTS COLLEGE of PHARMACY
and HEALTH SCIENCES



Biopharmaceutical Industry PharmD Fellowships

Unique Fellowships, Endless Opportunities



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A Message from Priya Singhal, Interim Head of Research and 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. The first approved treatment for spinal muscular atrophy was developed by Biogen and we continue to be at the forefront of innovation to advance patient care and experience. With a priority on Neurology, Specialized Immunology, Biosimilars, and Digital Health, 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.
Interim Head of
Research and Development



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About the Fellowship

Our MISSION is clear.
We are PIONEERS in neuroscience.

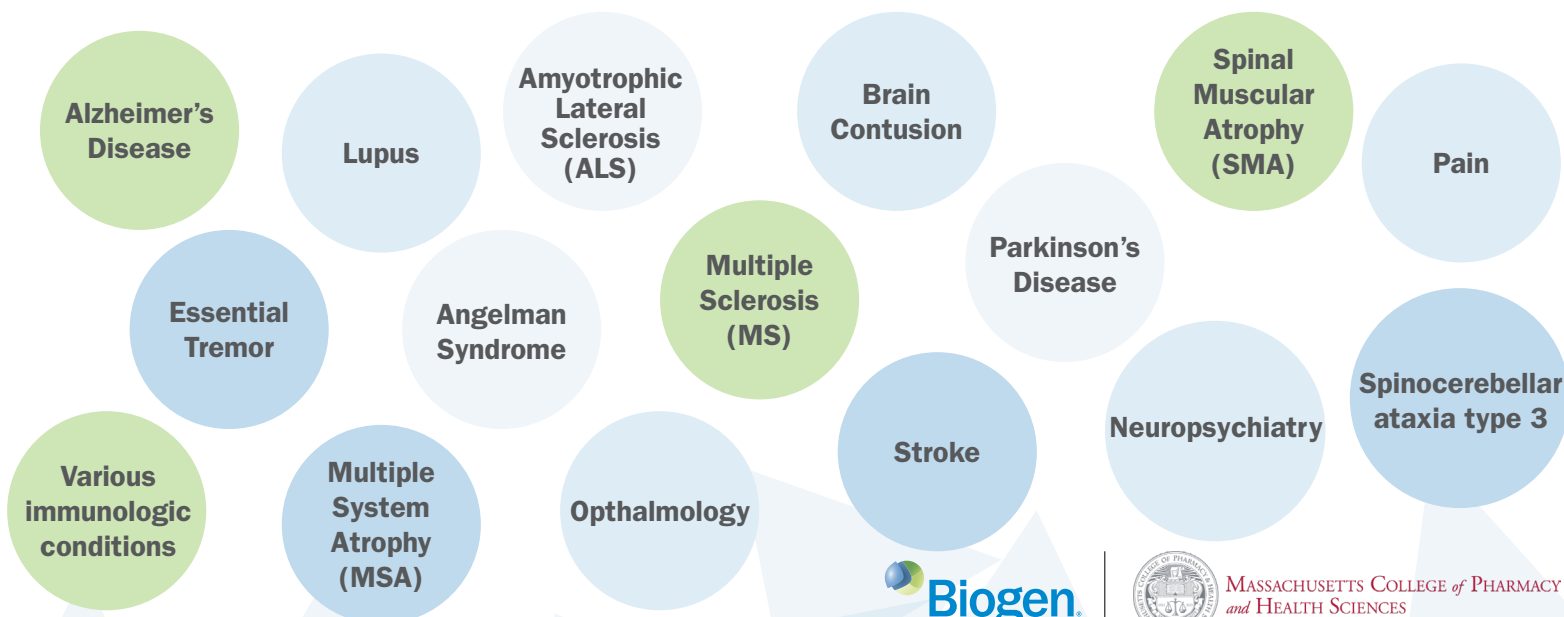


ABOUT BIOGEN

At Biogen, our mission is clear: we are pioneers in neuroscience. Biogen discovers, develops and delivers worldwide innovative therapies for people living with serious neurological and neurodegenerative diseases as well as related therapeutic adjacencies. One of the world's first global biotechnology companies, Biogen was founded in 1978 by Charles Weissmann, Heinz Schaller, Kenneth Murray and Nobel Prize winners Walter Gilbert and Phillip Sharp. Today Biogen has the leading portfolio of medicines to treat multiple sclerosis, has introduced the first approved treatment for spinal muscular atrophy, commercializes biosimilars of advanced biologics and is focused on advancing research programs in multiple sclerosis and neuroimmunology, Alzheimer's disease and dementia, neuromuscular disorders, movement disorders, ophthalmology, immunology, neurocognitive disorders, acute neurology and pain.

Check out the complete Pipeline overview [here](#).

Current Disease State Areas of Research





ABOUT THE FELLOWSHIP

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

- Global Safety
- Regulatory Sciences
- Regulatory Sciences-Advertising and Promotion
- Regulatory Sciences-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.





GLOBAL SAFETY

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.

Elective Options

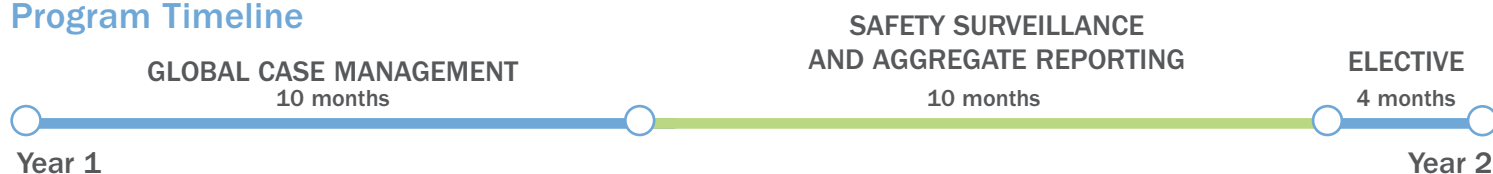
The fellow will have the opportunity to spend up to 4 months in another department within Biogen. Departments may include, but are not limited to:

- Regulatory Sciences
- Global Medical Writing
- Clinical Drug Supply Chain
- Global Clinical Operations
- Global Commercial Strategy
- Health Economics and Outcomes Research

Fellowship Contact Information

GlobalSafetyFellowship@biogen.com

Program Timeline



Program Director



"The Global Safety Fellowship provides the opportunity for Fellows to learn and contribute to the pharmacovigilance lifecycle through exposure and practical experience across the various Safety sub-functions. They become integral members of our teams."

Sharon Chan, PharmD, RPh

Director, Global Safety and Regulatory Sciences

Second-Year Fellow



"Biogen's fellowship program helped me develop a deep understanding of the various roles within global drug safety and other functional areas. Working alongside passionate leaders in this innovative environment has provided me with unique insights and learning experiences. This fellowship has allowed me to continue to build up fundamental skills that will support me in my career and make an impact in the biopharmaceutical industry."

Anthony Rizk, PharmD

MCPHS University - Worcester School of Pharmacy

First-Year Fellow



"The Global Safety fellowship has given me various unique opportunities to work alongside passionate leaders in their field and gain deep insights into the roles within global drug safety. Through the unparalleled support by highly engaged mentors, this fellowship has allowed me to confidently grow personally and professionally to become a leader in the biopharmaceutical industry."

Grace Rong, PharmD

University of Pittsburgh, School of Pharmacy



REGULATORY SCIENCES

About Regulatory Sciences

Regulatory Sciences 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 Sciences 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 science 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 former intern, past fellow, and as an 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 premiere option for future industry leaders."

Patsy Casalino, PharmD

Senior Manager, US Regulatory Sciences

Second-Year Fellow



"The Regulatory Sciences fellowship has allowed me to gain personal insight into the regulatory process at Biogen and network with a multitude of likeminded professionals. The environment is well-structured and supportive, allowing me to grow and clearly identify my responsibilities within the company. Also, the opportunity to rotate allows me to broaden my career interests and further develop my professional skillset. I am looking forward to having a meaningful career in the biopharmaceutical industry and I believe this fellowship was the correct choice to achieve that."

Brandon Vassar, PharmD

Florida A&M University, School of Pharmacy

First-Year Fellow



"The Regulatory Sciences 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

Rutgers University, Ernest Mario School of Pharmacy



REGULATORY SCIENCES ADVERTISING AND PROMOTION

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 Sciences
- Customer & Market Insights

Fellowship Contact Information

RegAPFellowship@biogen.com



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Program Timeline



Program Director



"Our program provides an opportunity for individuals interested in regulatory advertising and promotion to work hands-on in a field that is constantly evolving. Fellows will develop a core foundation in advertising and promotion, as well as participate in rotations in marketing and other electives based on their own interests. This structure encourages a deep understanding of the material development and review process and FDA's regulations that govern how the industry compliantly advertises and promotes prescription drugs to consumers and healthcare professionals. Fellows will have the opportunity to experience diverse cross-functional perspectives through their contributions to both regulatory and other groups."

Blythe Buchanan, Ph.D.

Executive Director, Head of Global Regulatory Advertising and Promotion

First-Year Fellow



"The Regulatory Sciences Advertising and Promotion Fellowship provides the opportunity to gain hands-on experience within the critical and growing field of regulatory advertising and promotion. The team is comprised of very knowledgeable, passionate, and supportive professionals that are dedicated to seeing you thrive. The fellowship also features rotational opportunities within marketing and other departments that provide a unique and competitive edge when pursuing a career in advertising and promotion. I am extremely confident this fellowship will prepare me to be very successful in the biopharmaceutical industry."

LeDea Bond, PharmD

Florida A&M University College 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 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 Sciences
- Scientific Communications
- Worldwide Medical

Fellowship Contact Information

GMWFellowship@biogen.com

Program Timeline



Program Director



"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

Second-Year Fellow

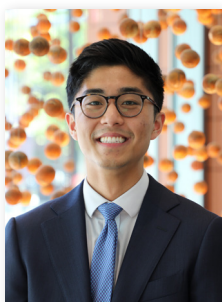


"The Global Medical Writing fellowship program at Biogen provides the opportunity to collaborate cross functionally and gain experience in authoring a variety of regulatory documents. I am incredibly grateful to work closely with a team of experienced leaders, mentors, and colleagues who are passionate about their work and support my professional development."

Diana Li, PharmD

University of Pittsburgh, School of Pharmacy

First-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



WORLDWIDE MEDICAL

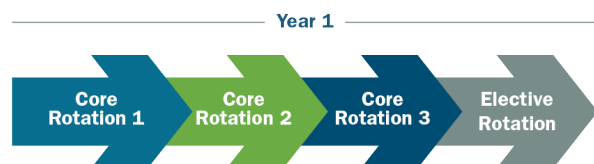
About Worldwide Medical

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

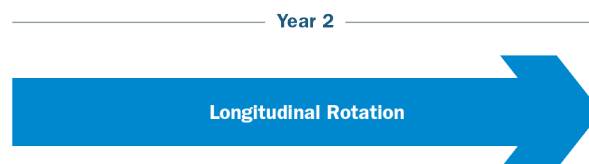


Core WWM Rotations may include *Choose at least 3*

- Medical Communications
- Publications
- Medical Directors Office
- Medical Information
- Congress Excellence
- Key Medical Expert Engagement
- Personalized Health Research, Analytics, & Solutions
- Biogen Digital Health
- Medical Operations & Effectiveness
- Medical Health Outcomes Research

Optional Elective Rotations may include *Choose up to 1*

- Value & Access
- Commercial Marketing
- Clinical Development
- Business Development
- Supply Chain Management
- Safety & Regulatory Sciences
- Customer & Market Insights



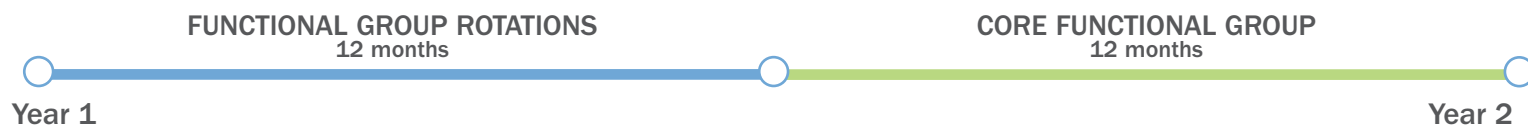
Longitudinal Rotation *Choose 1*

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



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Program Timeline



Program Director



“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

Second-Year Fellow

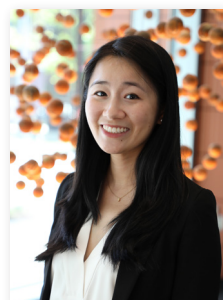


“The unique structure of the Worldwide Medical fellowship allows fellows to experience various functional areas within Medical Affairs. The rotational element enables fellows to create a strong network and equips them with a competitive foundation for a successful career in the biopharmaceutical industry.”

Hannah Adair, PharmD

The University of Texas at Austin, College of Pharmacy

First-Year Fellows



“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



“The Worldwide Medical fellowship provides an enriching and personalized experience for motivated fellows eager to jumpstart their career in Medical Affairs. Through the rotational nature of the program, fellows gain vast project experiences and build a diverse network to boost themselves as integrated members of the pharmaceutical industry. Biogen’s unrivaled confidence in its fellows paired with deeply supportive mentors contribute to a fulfilling post-doctorate experience designed to yield accomplished industry leaders.”

Isaac Yun, PharmD

Northeastern University, Bouvé College of Health Sciences



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 pharmacists, physicians, and highly scientifically trained business professionals, and is organized to provide a meaningful impact through three key segments of the US marketplace: (1) health care professionals, (2) managed care, and (3) formulary decision makers. 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), Amyotrophic Lateral Sclerosis (ALS), and Neuropsychiatry.

The 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 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 colleagues

The US Medical Fellow will spend 18 months rotating within the US Medical Office, across functions responsible for medical engagement of health care professionals, scientists, payers and specialty pharmacies, and health systems. They will also be offered two 3-month elective rotations where they can gain experience in other functions outside of the US Medical Office.

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.

Elective Options

The fellow will have the opportunity to spend up to three months rotating in two other departments within Biogen, such as:

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

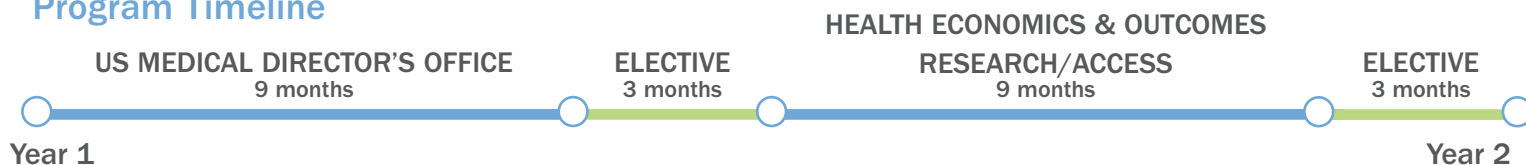
Fellowship Contact Information

Jason.mendoza@biogen.com



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Program Timeline



Program Directors



"The US Medical Fellowship is designed to provide fellows with exposure to the Medical Affairs organization in an affiliate while providing them with the tools to communicate effectively and think strategically when applying scientific evidence to established better health outcomes in the populations we serve."

Caroline Geremakis, PhD, MPH

Director, Health Economics and Outcomes Research/Access, US Medical



"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



"Our US Medical Affairs Biogen team is committed to mentoring, supporting, and challenging our fellows to best prepare each individual for the next phase in their professional careers. Contributing to key strategies and tactics is an opportunity to glean key learnings while having meaningful impact across multiple stakeholders, including patients, families, caregivers, payers, and healthcare providers."

Wendy Agnese, PharmD

Head of Neuromuscular Disorders, US Medical

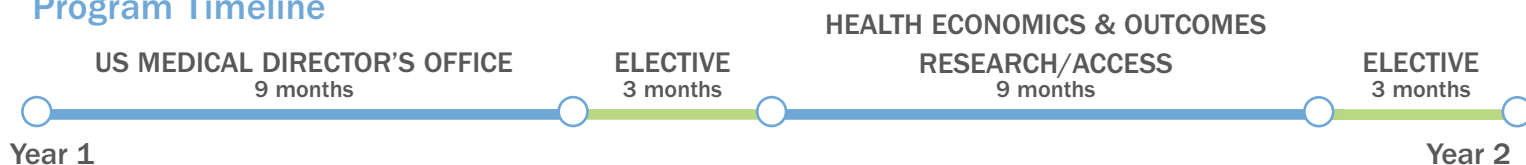


"Fellows at Biogen are an integral part of the US Medical team engaging cross functionally to collaborate on integration of global medical resources and development of new scientific resources to support successful execution of our strategy. This provides an opportunity to enhance leadership skills and develop an appreciation for the value of strong collaborative partnerships."

Nikki Irish, ANP-BC

Medical Director, Neuromuscular Disorders, US Medical

Program Timeline



Second-Year Fellow



"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. I am grateful to learn from this incredible team!"

McKenzie Stratton, PharmD

University of Arizona, School of Pharmacy

First-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 a medical lens. 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



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.

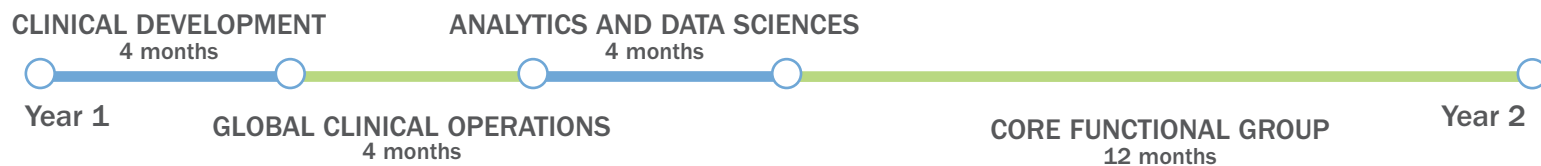
Global Clinical Operations: Global Clinical Operations (GCO) provides operational expertise and rigor to enable world-class execution of clinical trials across the R&D clinical pipeline (from first-in-human through pivotal and post-approval studies).

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.

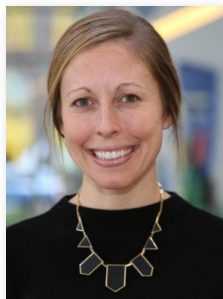
Fellowship Contact Information

TDGFellowship@biogen.com

Program Timeline



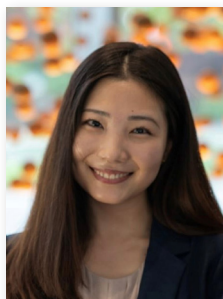
Program Directors



"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



"The TD fellowship will fully immerse the fellow into Biogen's clinical development programs with many expert preceptors' support. Specifically, the three rotations through the key functional areas will allow the fellow to understand the drug development process and provide various opportunities to meaningfully contribute. I am extremely grateful to have had the opportunity to learn from some of the most passionate and talented individuals as a previous TD fellow and strongly recommend this program to those interested in a career in drug development."

Julia Heo, PharmD

Senior Clinical Scientist, Clinical Development

Second-Year Fellow



"The TD fellowship offers a unique focus into three specific functional areas that will allow you to fully exercise your research and development skillset through supporting clinical programs. Approaching the challenges of bringing a drug to market has created opportunities to utilize my clinical knowledge gained in pharmacy school as well as the problem-solving capabilities acquired from research experience. As a pioneer of neuroscience at Biogen, you will experience a clear view of how science meets humanity by collaborating with diverse teams composed of driven professionals with a patient-first perspective on advancing therapeutic development."

Dalton Lovins, PharmD, MS

University of Kentucky, School of Pharmacy

First-Year Fellow



"The TD fellowship provides an unparalleled experience within patient focused biopharmaceutical development. The three core rotations allow the fellow to gain an unrivaled insight of the drug development process and build the foundational skillset necessary to optimize and execute global clinical trials. With passionate mentors from diverse areas of expertise, the position drives the fellow to excel and pursue a successful career in the advancement of innovative medicine."

Christopher Nguyen, PharmD

Chapman University, School of Pharmacy



US MARKETING

About US Marketing

Sales and marketing teams are on the front lines 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 creating best in class medicines. Biogen is rooted in a core focus on Neuroscience and currently marketing medicines in 4 therapeutic areas: Multiple Sclerosis (MS), Neuromuscular Diseases (Spinal Muscular Atrophy (SMA)), Alzheimer's Disease (ALZ), and Neuropsychiatry (Major Depressive Disorder (MDD) and Post-Partum Depression (PPD)).

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 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 switch to another franchise, where they will learn a new therapeutic area, and building off their first year will now have complete ownership on 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.

Elective Options

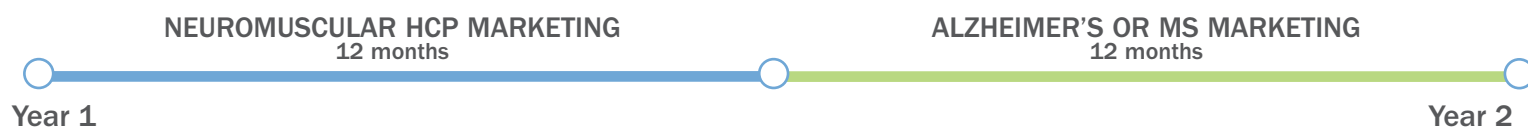
Fellow will start the 1st year off in SMA HCP marketing, then choose their second-year rotation from the following Neuropsychiatry or MS:

- Consumer Marketing
- Peer to Peer Marketing

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

First-Year Fellow



"Biogen's US Marketing fellowship gives me the unique opportunity to work closely alongside experienced leaders of marketing on a variety of projects including HCP marketing and peer-to-peer marketing. I am blessed with a position to gain insight of a rare disease competitive market landscape and 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



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



Amee Mistry, PharmD, RPh
Director,
Biopharmaceutical
Industry Fellowship
Program

Dr. Amee 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, MA, PharmD, BCPP
Professor of Pharmacy Practice



Paul Kaplita, PhD
Associate Professor of Pharmaceutical Sciences



Elizabeth Haftel, PharmD, CDE
Assistant Professor of Pharmacy Practice



Michael Steinberg, BA, BS, PharmD, BCOP
Professor of Pharmacy Practice



Adrian Wong, PharmD, MPH, BCPS, BCCCP
Assistant Professor of Pharmacy Practice



Kristine Willett, PharmD, FASHP
Professor of Pharmacy Practice

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 3rd, 2022**.

Applicants must upload the following application materials to the online portal (<https://mcphs.smapply.io>) no later than **Friday, November 11th, 2022**:

- 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 **December 1st, 2022** 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 start mid-October with pre-screens and a mixture of interview rounds which will conclude in December at the end of the ASHP Midyear Clinical Meeting. 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 Las Vegas. 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 pending COVID – 19 restrictions.

Offer Dates

Recognizing that the choice of a Post-Doctoral Industry Fellowship is an important decision, MCPHS in conjunction with the Academic Industry Fellowship Alliance (AIFA), has agreed to extend offers for Fellowships no earlier than **December 7, 2022**.

Onboarding

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

Frequently Asked Questions

What is the timeline for the fellowship selection process?

- Applicants are encouraged to register for ASHP/PPS, but this is not a requirement to apply.
- The MCPHS application portal will open up on **Monday October 3rd, 2022**. Applicants must upload their letter of intent, CV, unofficial college transcript, contact information for 3 references for their recommendations.
- The application materials listed above must be received by **Friday November 11th, 2022**; however, applications will be accepted and reviewed prior to the due date. Due to the competitive nature of the selection process, applicants are encouraged to submit their application materials as soon as possible.
- Recommendations from three references must be submitted by **Thursday December 1st, 2022** via the online portal.
- The Fellowship will conduct virtual interviews between October and December. Candidates will be notified if selected for an interview.

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.

Fellowship Alumni

Regulatory Sciences—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
2012 - 2014	Kimberly Price, PharmD, RPh Massachusetts College of Pharmacy and Health Sciences—Worcester	Director, Medical Education and Training Sage Therapeutics
2013 - 2015	Lauren Oliva, PharmD, RPh Rutgers University Ernest Mario School of Pharmacy	Director, Lead Digital Health Regulatory Policy Biogen
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	Director, Regulatory Affairs Ironwood Pharmaceuticals

Fellowship Alumni (Cont'd)

Regulatory Sciences-Safety and Benefit Risk Management		
2015 - 2017	Colin Gillis, PharmD Northeastern University Bouve 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 FDA
	Kathy Lu, PharmD University of the Sciences Philadelphia College of Pharmacy	Associate Director, Global Labeling (Oncology) Merck & Co., Inc.
2017 - 2018	Amanda Hall, PharmD Temple University School of Pharmacy	Manager, Regulatory Affairs Labeling Daiichi Sankyo, Inc.
2018 - 2020	Lori Yeterian, PharmD, RPh MCPHS University, Boston School of Pharmacy	Senior Manager, Regulatory Affairs and Operations Tremeau Pharmaceuticals, Inc.
	Patsy Casalino, PharmD MCPHS University, Boston School of Pharmacy	Senior Manager, US Regulatory Affairs Biogen
Global Safety		
2020 - 2022	Victoria Carr, PharmD, RPh MCPHS University - Worcester School of Pharmacy	Associate Pharmacovigilance Scientist Biogen
Regulatory Sciences- Advertising and Promotion		
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 & Promotion Gilead Sciences
2015 - 2017	Kate Ho, PharmD, RPh Purdue University College of Pharmacy	Associate Director, Regulatory Affairs, Advertising and Promotion Gilead Sciences

Fellowship Alumni (Cont'd)

Regulatory Sciences—Advertising and Promotion		
2018 - 2020	Adaku Onwuzurumba, PharmD MCPHS University, Worcester School of Pharmacy	Associate Director Marketing (Rheumatology) UCB
Regulatory Sciences-Trial Master File/Clinical Trial Application		
2016 - 2018	April Nguyen, PharmD University of the Pacific Thomas J. Long School of Pharmacy and Health Sciences	Senior Manager, Regulatory Affairs Biogen
Regulatory Sciences-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	Associate Director Publication Management (Oncology) Merck
2017 - 2018	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
2020 - 2022	Danielle Pete, PharmD Ohio Northern University Raabe College of Pharmacy	Senior Medical Writer Biogen
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
2016 - 2018	Jinny Min, PharmD University of Michigan College of Pharmacy	Associate Director, Medical Affairs Apellis Pharmaceuticals

Fellowship Alumni (Cont'd)

Worldwide Medical

2016-2018	Melanie Standridge, PharmD Thomas Jefferson University College of Pharmacy	Associate Director, Medical Information Krystal Biotech
2018 - 2020	Stephanie Yin, PharmD, RPh The University of Texas at Austin, College of Pharmacy	Senior Medical Science Liaison Neurocrine Biosciences
2019-2021	Melissa Kang, PharmD The University of Texas at Austin, College of Pharmacy	Medical Science Liaison (ALS) Biogen

Real World Outcomes, Innovative Partnerships, and Insights

2016 - 2018	Jaanai Babb, PharmD Rutgers University Ernest Mario School of Pharmacy	Director, Market Access Strategy Sage Therapeutics
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Therapeutics Development

2020 - 2022	Julia Heo, PharmD University of Pittsburgh School of Pharmacy	Senior Clinical Scientist, Clinical Development Biogen
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Thank you for considering the Biogen PharmD Fellowship Program

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