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A Message from Al Sandrock Jr.  
Executive Vice President, Research and Development

Dear Prospective Biogen Fellow,

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

Since our founding in 1978 as one of the world’s first global biotechnology companies, Biogen has led innovative scientific research with the goal over the last decade to defeat devastating neurological diseases. Our culture of innovation, inclusiveness, and empowerment creates an atmosphere of learning and cultivates new opportunities for our employees and fellows. Our passion and focus goes 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. Be safe, stay healthy and best of luck as you explore the different opportunities available to you, and I strongly encourage you to consider the Biogen Fellowship.

Sincerely,

Al Sandrock Jr., MD, PhD
Executive Vice President Research and Development
About the Fellowship
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 six 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.
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 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

GLOBAL CASE MANAGEMENT 10 months

ELECTIVE 4 months

SAFETY SURVEILLANCE AND AGGREGATE REPORTING 10 months

Year 1

Year 2

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 is exceptional at providing their Global Safety Fellows with an all-encompassing experience that provides the necessary skills and expertise to excel as a pharmaceutical industry professional. I feel privileged to learn from such knowledgeable and passionate individuals who provide a supportive environment for my personal and professional growth. In my time with Biogen I have learned a great deal from my preceptors and I look forward to continuing this journey as a second year fellow.*”

Victoria Carr, PharmD, RPh
MCPHS University - Worcester School of Pharmacy

First-Year Fellow

“*Biogen’s fellowship program helped me develop a deep understanding for 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
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

US REGULATORY SCIENCES
8 months

EARLY GLOBAL REGULATORY SCIENCES
8 months

LATE GLOBAL REGULATORY SCIENCES
8 months

Year 1

Program Director

“Biogen is simply the best place to grow, develop, and learn as a regulatory professional. As an intern, a fellow, and as an employee, Biogen has given me new challenges and new opportunities at each turn. I continue to learn every day in a collaborative and innovative environment.”

Colin Gillis, PharmD
Associate Director, US Regulatory Sciences

First-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
About Advertising and Promotion

Regulatory Sciences – Advertising and Promotion (AP) is one of the functional groups within the Regulatory Sciences organization that support Biogen’s development and commercial programs. The Regulatory Sciences – 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 regulations, company policies, and business goals. The AP group leads communications with regulatory agencies related to US advertising and promotion.

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

Regulatory Sciences–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 Sciences–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 Regulatory Sciences–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 Regulatory Sciences–AP.

Elective Options

The fellow will have the opportunity to spend up to 3 months in another department within Biogen. Departments may include, but are not limited to:

- Worldwide Medical
- Global Commercial Strategy
- Health Economics and Outcomes Research
- Global Safety
- Regulatory Sciences
- Customer & Market Insights

Fellowship Contact Information

RegAPFellowship@biogen.com
Program Timeline

REGULATORY SCIENCES–AP
9 months

US MARKETING
6 months

ELECTIVE
3 months

REGULATORY SCIENCES–AP
6 months

Year 1

Year 2

Program Director

“Our program provides individuals interested in regulatory sciences with an opportunity to work in the constantly evolving field of advertising and promotion. Fellows will develop a core foundation in advertising and promotion, as well as participate in rotations in both marketing and an elective based on their own interests. This structure encourages a deep understanding of the material review process and FDA’s regulations that govern how industry compliantly advertise and promote prescription drugs to consumers and healthcare professionals as fellows can fully appreciate the diverse cross-functional perspectives through their contributions to both regulatory and other groups.”

Ai Lockard, Ph.D.
Associate Director Regulatory Sciences Advertising and Promotion

First-Year Fellow

“The Regulatory Sciences: Advertising and Promotion Fellowship has provided me with unique hands-on exposure to the Regulatory process regarding the approval of promotional materials. The Advertising and Promotion team is filled with amazing leaders who are constantly supplying me with knowledge and guidance, strengthening my confidence to engage in independent projects and expanding my impact during my fellowship. Being part of the Biogen network, I have been able to meet with other cross-functional staff and fellows which has enhanced my knowledge of the interprofessional collaboration that occurs here at Biogen. I am incredibly thankful that I am able to learn alongside such an inspiring team!”

Sophia D’Alessandro, PharmD
MCPHS University – Boston School of Pharmacy
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 including 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. The fellow, as part of the cross-functional team of scientists and physicians, 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 in 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 in 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 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
- Regulatory Sciences
- Global Safety
- Scientific Communications
- Worldwide Medical

Fellowship Contact Information

GMWFellowship@biogen.com
Program Timeline

GLOBAL MEDICAL WRITING 10 months
ELECTIVE 4 months
GLOBAL MEDICAL WRITING 10 months

Year 1

Year 2

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
Principal Medical Writer, Global Medical Writing

Second-Year Fellow

“The Global Medical Writing Fellowship offers the opportunity to gain knowledge and be involved with every stage of the drug development process. Fellows work cross-functionally to produce clinical and regulatory documents leading way to a wide variety of projects equipping you with the necessary skills to lead a team through document lifecycles. This program provides an environment for professional growth and a solid foundation for a career within the biopharmaceutical industry.”

Danielle Pete, PharmD
Ohio Northern University Raabe College of Pharmacy

First-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
Worldwide Medical (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

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### Core WWM Rotations may include

- Medical Communications
- Publications
- Medical Directors Office
- Medical Information
- Congress Excellence
- Key Medical Expert Engagement

### Optional Elective Rotations may include

- Value & Access
- Commercial Marketing
- Clinical Development
- Business Development

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### Year 1

- Core Rotation 1
- Core Rotation 2
- Core Rotation 3
- Elective Rotation

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### Year 2

- Longitudinal Rotation

**Longitudinal Rotation Choose 1**

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

**FUNCTIONAL GROUP ROTATIONS**

<table>
<thead>
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<th>Year 1</th>
<th>Year 2</th>
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<tbody>
<tr>
<td>12 months</td>
<td>12 months</td>
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</tbody>
</table>

**Program Directors**

- **Tucker Ward, PharmD**
  Global Publications Lead – Alzheimer’s disease & Execution, US Medical

  “Biogen’s innovative research, groundbreaking medicines, and strong partnership with the medical community have translated to the development of a best-in-class Worldwide Medical organization that I am excited to be a part of. As a past fellow in the Worldwide Medical fellowship program, I am extremely grateful for the many opportunities this program provided me, and I look forward to mentoring new fellows in the future.”

- **Tyler Lasky, PharmD**
  Associate Director, Global Scientific Communications – Multiple Sclerosis

  “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.”

**First-Year Fellows**

- **Kinyee Fong, PharmD**
  University of California – San Francisco School of Pharmacy

  “Biogen has long been a pioneer within the neuroscience space and their continued perseverance through the most complex challenges places them at the forefront of innovation for previously intractable diseases. Not only will Worldwide Medical fellows have the opportunity to learn at the forefront of science, but they’ll also have the agency to explore their interests through the rotational nature of the program. Alongside industry-leading preceptors, fellows will be able to leverage their skills cross-functionally and lead impactful projects that enhance patients’ lives across Biogen’s various therapeutic areas.”

- **Hannah Adair, PharmD**
  The University of Texas at Austin, College of Pharmacy

  “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.”
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 deeply engage three key segments of the US marketplace: (1) health care professionals and (2) managed care and formulary decision makers. US Medical is currently responsible for medical engagement in various therapeutic areas including but not limited to Multiple Sclerosis, Neuromuscular diseases including Spinal Muscular Atrophy (SMA) and amyotrophic lateral sclerosis (ALS), and Alzheimer’s Disease.

The US Medical Fellowship is designed for fellows to acquire the skills and experience necessary to drive scientific thought leadership, launch rare disease and specialty products, and enable market access to therapies. 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 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 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, payors and 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.

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

MedValueFellowship@biogen.com
**Program Timeline**

<table>
<thead>
<tr>
<th>Program Director's Office</th>
<th>Elective</th>
<th>Medical Value Strategy &amp; Execution Office</th>
<th>Elective</th>
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<tbody>
<tr>
<td>9 months</td>
<td>3 months</td>
<td>9 months</td>
<td>3 months</td>
</tr>
</tbody>
</table>

### Year 1

#### Program Directors

**Caroline Geremakis, PhD, MPH**
Director, Medical Value Strategy & Execution, US Medical

“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.”

**Jason Mendoza, PhD**
Head of Multiple Sclerosis, US Medical

“The US Medical fellowship offers the opportunity to become deeply integrated within the Medical Director's office and the Medical Value Strategy and Execution team. The rotational structure will allow the fellow to explore areas of interest, develop professionally through cross-functional interactions, and build a solid foundation to successfully transition to various industry career roles.”

### Second-Year Fellows

**Donald Smith, PharmD, RPh**
University of Kansas, School of Pharmacy

“The unique structure of this program supports fellows in their professional interests and goals through core and elective rotations. During my time within the fellowship, I have worked on a wide assortment of significant and challenging projects directed at improving Biogen’s core therapeutic areas.”

**Mary Zhang, PharmD**
University of Maryland School of Pharmacy

“The US Medical fellowship offers the opportunity to become deeply integrated within the Medical Director’s office and the Medical Value Strategy and Execution team. The rotational structure will allow the fellow to explore areas of interest, develop professionally through cross-functional interactions, and build a solid foundation to successfully transition to various industry career roles.”

### First-Year Fellow

**McKenzie Stratton, PharmD**
University of Arizona, School of Pharmacy

“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 Medical Value Strategy and Execution 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!”

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**Biogen.**

**MCPHS University**
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
Dalton Lovins, PharmD
University of Kentucky, School of Pharmacy

First-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.”

Julia Heo, PharmD
University of Pittsburgh, School of Pharmacy

Second-Year Fellow
“The TD fellowship enables me to fully immerse myself into Biogen’s clinical development programs while being mentored by many expert preceptors. The three rotations through the key functional areas allow you to better understand the intricate and fascinating drug development process. Furthermore, this program provides a supportive environment to grow and develop as you transition from being a student pharmacist to an industry professional. As a TD fellow, I am extremely thankful to have this opportunity to collaborate with such passionate and talented professionals to fulfill the unmet needs in neurological diseases.”

Stephanie Fradette, PharmD
Senior Medical Director, Clinical Development

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.”

About Biogen
Global Safety
Regulatory Sciences
Medical
Therapeutics Development
US Marketing
How to Apply

Program Timeline
CLINICAL DEVELOPMENT
4 months
ANALYTICS AND DATA SCIENCES
4 months
GLOBAL CLINICAL OPERATIONS
4 months
CORE FUNCTIONAL GROUP
12 months

GLOBAL CLINICAL OPERATIONS
CLINICAL DEVELOPMENT ANALYTICS AND DATA SCIENCES
CORE FUNCTIONAL GROUP

4 months
4 months
4 months
12 months

Year 1
Year 2

Program Directors
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Julia Heo, PharmD
University of Pittsburgh, School of Pharmacy
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 3 therapeutic areas: Multiple Sclerosis (MS), Neuromuscular Diseases (Spinal Muscular Atrophy (SMA)) and Alzheimer’s Disease (ALZ). 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 choose their second-year rotation from the following ALZ or MS:
- Consumer Marketing
- Peer to Peer Marketing

Fellowship Contact Information

usmarketingfellowship@biogen.com
"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
Senior Product Manager ALZ Marketing

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

"I believe the US Marketing Fellowship will provide a unique offering for MCPHS and allow fellows an opportunity to learn and develop critical business skills required to grow as a leader within a rapidly growing and innovative biotechnology company."

Adaku Onwuzurumba, PharmD
Senior Product Manager SMA 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
Senior Product Manager ALZ Marketing
How to Apply
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

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

Amee Mistry, PharmD, RPh
Director, Biopharmaceutical Industry Fellowship Program
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, etc.).

Application Procedure
The MCPHS application portal (SMApply) will open on Monday October 11, 2021. Applicants must upload the following application materials to the online portal no later than Friday November 19, 2021:

- Letter of intent
- Curriculum vitae
- Unofficial college transcript
- Contact information of three references. References will complete a recommendation form only.

Three recommendation evaluation forms must be submitted no later than December 1, 2021 via the online portal. This is NOT a letter of recommendation but an online form that the reference will need to complete.

All application materials will be reviewed on a rolling basis.

Interviews
The fellowship program will conduct interviews on a rolling basis starting mid-October with pre-screens and will conclude interviews in December. Candidates will be notified if selected for an interview.

Onsite Interviews
Top candidates may be invited for interviews at the sponsoring company's location pending COVID – 19 restrictions.

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 11, 2021. 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 19, 2021; 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 Wednesday December 1, 2021 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

<table>
<thead>
<tr>
<th>Alumnus/Alumna</th>
<th>Current Position</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hamdan Almas, PharmD</strong>&lt;br&gt;University of California–San Francisco School of Pharmacy</td>
<td>Senior Director, US Marketing&lt;br&gt;Kite Pharma</td>
</tr>
<tr>
<td><strong>Benjamin Exter, PharmD</strong>&lt;br&gt;Northeastern University&lt;br&gt;Bouvé College of Health Sciences</td>
<td>Vice President, Pharmacovigilance&lt;br&gt;Unum Therapeutics</td>
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<tr>
<td><strong>Raymond Kim, PharmD</strong>&lt;br&gt;University of California–San Francisco School of Pharmacy</td>
<td>Associate Director, Medical Services&lt;br&gt;Ultragenyx Pharmaceutical Inc.</td>
</tr>
<tr>
<td><strong>James Scanlon, PharmD, RPh</strong>&lt;br&gt;Northeastern University&lt;br&gt;Bouvé College of Health Sciences</td>
<td>Senior Regional Medical Liaison&lt;br&gt;Amgen</td>
</tr>
<tr>
<td><strong>Amy Gangadharan, PharmD</strong>&lt;br&gt;Northeastern University&lt;br&gt;Bouvé College of Health Sciences</td>
<td>Pharmacovigilance &amp; Clinical Safety&lt;br&gt;Cerevel Therapeutics, LLC</td>
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<tr>
<td><strong>Stephanie Fradette, PharmD</strong>&lt;br&gt;Northeastern University&lt;br&gt;Bouvé College of Health Sciences</td>
<td>Senior Medical Director, Clinical Development&lt;br&gt;Biogen</td>
</tr>
<tr>
<td><strong>Desmond Murphy, PharmD, RPh</strong>&lt;br&gt;Northeastern University&lt;br&gt;Bouvé College of Health Sciences</td>
<td>Medical Science Liaison&lt;br&gt;Alnylam Pharmaceuticals</td>
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<tr>
<td><strong>Kimberly Price, PharmD, RPh</strong>&lt;br&gt;Massachusetts College of Pharmacy and Health Sciences–Worcester</td>
<td>Associate Director, Scientific Communications&lt;br&gt;bluebird bio</td>
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<tr>
<td><strong>Lauren Oliva, PharmD, RPh</strong>&lt;br&gt;Rutgers University&lt;br&gt;Ernest Mario School of Pharmacy</td>
<td>New Technologies Policy Lead, Associate Director, Global Regulatory Policy&lt;br&gt;Biogen</td>
</tr>
<tr>
<td><strong>Theresa Foster, PharmD, RPh</strong>&lt;br&gt;University of New England&lt;br&gt;College of Pharmacy</td>
<td>Senior Pharmacovigilance Scientist&lt;br&gt;Ironwood Pharmaceuticals</td>
</tr>
<tr>
<td><strong>Martin Kwok, PharmD, RAC, RPh</strong>&lt;br&gt;The Ohio State University&lt;br&gt;College of Pharmacy</td>
<td>Director, Regulatory Affairs&lt;br&gt;Ironwood Pharmaceuticals</td>
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## Fellowship Alumni (Cont’d)

### Regulatory Sciences-Safety and Benefit Risk Management

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<tr>
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<th>Name</th>
<th>University</th>
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<tbody>
<tr>
<td>2015-2017</td>
<td>Colin Gillis, PharmD</td>
<td>Northeastern University</td>
<td>Associate Director, US Regulatory Affairs</td>
<td>Biogen</td>
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<tr>
<td>2016-2018</td>
<td>Bhumi Patel, PharmD, MBac</td>
<td>University of the Sciences</td>
<td>Regulatory Global Labeling Lead (Oncology)</td>
<td>Pfizer</td>
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<td>Philadelphia College of Pharmacy</td>
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<tr>
<td>2016-2018</td>
<td>Tina Chhabra, PharmD</td>
<td>Virginia Commonwealth University</td>
<td>Regulatory Manager</td>
<td>FDA</td>
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<tr>
<td>2018-2020</td>
<td>Kathy Lu, PharmD</td>
<td>University of the Sciences</td>
<td>Manager, Regulatory Global Labeling</td>
<td>Amgen</td>
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<tr>
<td>2017-2018</td>
<td>Amanda Hall, PharmD</td>
<td>Temple University</td>
<td>Manager, Regulatory Affairs</td>
<td>Biogen</td>
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<tr>
<td>2018-2020</td>
<td>Lori Yeterian, PharmD, RPh</td>
<td>MCPHS University, Boston School of Pharmacy</td>
<td>Manager, Regulatory Affairs</td>
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<tr>
<td>2018-2020</td>
<td>Patsy Casalino, PharmD</td>
<td>MCPHS University, Boston School of Pharmacy</td>
<td>Manager, Regulatory Affairs</td>
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### Regulatory Sciences-Advertising and Promotion

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<tr>
<td>2012-2014</td>
<td>Richard Lem, PharmD</td>
<td>Rutgers University</td>
<td>Associate Director, Regulatory Affairs</td>
<td>Bayer HealthCare</td>
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<td>Ernest Mario School of Pharmacy</td>
<td>Advertising and Promotion</td>
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<tr>
<td>2013-2015</td>
<td>Sheila Kundu, PharmD</td>
<td>University of the Sciences</td>
<td>Associate Director, Regulatory Affairs</td>
<td>Gilead Sciences</td>
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<tr>
<td>2015-2017</td>
<td>Kate Ho, PharmD, RPh</td>
<td>Purdue University</td>
<td>Senior Manager, Regulatory Affairs</td>
<td>TESARO, Inc</td>
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<tr>
<td>2018-2020</td>
<td>Adaku Onwuzurumba, PharmD</td>
<td>MCPHS University, Worcester School of Pharmacy</td>
<td>Senior Product Manager, US Marketing</td>
<td>Biogen</td>
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## Fellowship Alumni (Cont’d)

### Regulatory Sciences-Trial Master File/Clinical Trial Application

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<th>Name</th>
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<tbody>
<tr>
<td>April Nguyen, PharmD</td>
<td>University of the Pacific</td>
<td>Manager, Regulatory Affairs</td>
<td>Biogen</td>
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<tr>
<td>Thomas J. Long School of Pharmacy and Health Sciences</td>
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### Regulatory Sciences-Global Medical Writing

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<th>Name</th>
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<tbody>
<tr>
<td>Jihae Lim, PharmD</td>
<td>Temple University</td>
<td>Senior Specialist, Labeling</td>
<td>Merck</td>
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<tr>
<td>School of Pharmacy</td>
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<tr>
<td>Joseph Naggar, PharmD, RPh</td>
<td>MCPHS University-Boston</td>
<td>Senior Specialist, Publication Management</td>
<td>Merck</td>
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<td>School of Pharmacy</td>
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<tr>
<td>Melissa Laracy, PharmD</td>
<td>University of Connecticut</td>
<td>Associate Principal Medical Writer</td>
<td>Biogen</td>
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<tr>
<td>School of Pharmacy</td>
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<tr>
<td>Jeffrey Roth, PharmD, RPh</td>
<td>University of North Carolina, Eshelman School of Pharmacy</td>
<td>Senior Medical Writer</td>
<td>Biogen</td>
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### Worldwide Medical

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<th>Name</th>
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<tbody>
<tr>
<td>Jonathan Kendter, PharmD, MBA</td>
<td>University of the Sciences</td>
<td>Associate Director, Medical Managed Care</td>
<td>Sanofi Genzyme</td>
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<tr>
<td>Philadelphia College of Pharmacy</td>
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<tr>
<td>Manas Prasad, PharmD</td>
<td>University of Connecticut</td>
<td>Associate Director, Medical Information</td>
<td>Orchard Therapeutics</td>
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<tr>
<td>Jinny Min, PharmD</td>
<td>University of Michigan</td>
<td>Associate Director, Medical Communications</td>
<td>Rhythm Pharmaceuticals, Inc.</td>
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<td>College of Pharmacy</td>
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<tr>
<td>Melanie Standridge, PharmD</td>
<td>Thomas Jefferson University</td>
<td>Senior Manager, Medical Information</td>
<td>AstraZeneca</td>
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<td>College of Pharmacy</td>
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<tr>
<td>Stephanie Yin, PharmD, RPh</td>
<td>The University of Texas at Austin,</td>
<td>Medical Science Liaison</td>
<td>Biogen</td>
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### Real World Outcomes, Innovative Partnerships, and Insights

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<tr>
<td>Jaanai Babb, PharmD</td>
<td>Rutgers University</td>
<td>Associate Director, Payer Marketing</td>
<td>Sage Therapeutics</td>
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<tr>
<td>Ernest Mario School of Pharmacy</td>
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Thank you for Considering the Biogen PharmD Fellowship Program

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