2019-2021
Post-doctoral PharmD Fellowship Programs
Table of Contents

› About Bioverativ
› Message from Medical and Regulatory
› Our Pipeline
› Partnership with Northeastern University
› Global Medical Fellowship
› Global Regulatory Fellowship
› Eligibility and Application Timeline
Bioverativ is a global biopharmaceutical company dedicated to transforming the lives of people with hemophilia and other rare blood disorders through world-class research, development and commercialization of innovative therapies.

Bioverativ builds upon a strong heritage of scientific innovation and is committed to actively working with the blood disorders community. Our mission is to create progress for patients where they need it most, we will carry forward a commitment to significantly impact the lives of people with hemophilia and other rare blood disorders, including cold agglutinin disease, sickle cell disease and beta thalassemia.
The evolving world of the biopharmaceutical industry has opened up a tremendous amount of opportunity for pharmacists looking for an alternative and diverse career path. Bioverativ trains and promotes the role of the Doctor of Pharmacy within the company, academia, and the industry as a whole. Fellows completing this program not only grow professionally in terms of skills and expertise, but also make a substantial impact on programs integral to the success of Bioverativ.

Bioverativ provides a culture of innovation, inclusiveness, and empowerment. This environment allows for personal and professional growth, all while creating an atmosphere of learning and new opportunities for our employees.

At Bioverativ, we are dedicated to transforming the lives of people with hemophilia, cold agglutinin disease and other rare blood disorders. We lead by doing what’s right for patients and those who care for them by actively working with the blood disorders community to accelerate innovation and develop life-changing treatments.

Brieana Cox-Buckley, PharmD, MS
Executive Director - Medical
Field Medical

We are at an exciting time at Bioverativ and we are committed to pursuing science that truly matters. Best of luck as you explore the different opportunities available to you.

*I strongly encourage you to consider the Bioverativ fellowship programs.*
Message from Regulatory

The biopharmaceutical industry is uniquely positioned to offer individuals with a Doctor of Pharmacy a broad spectrum of career opportunities ranging from Commercial Strategy and Market Access to Regulatory Affairs and Pharmacovigilance. Fellows completing the program will gain valuable experience in multiple disciplines within industry while having a direct impact on programs that may lead to meaningful changes in the lives of patients.

Our scientists are deeply committed to the discovery and development of new medicines to address areas of serious need for patients. Leveraging our deep understanding of the biology of hemostasis gained over 15 years of research, we plan to accelerate the development of our innovative pipeline of programs in hemophilia, cold agglutinin disease, sickle cell disease, beta thalassemia, and other blood disorders.

“Science matters. Because patients matter.”

Although easy to say, it is at the core of what we do every day. While our foundation is built largely on biological drug development, we have expanded our development efforts into new and innovative areas such as gene editing and gene therapy. It is our hope that together we will make true, meaningful, and lasting differences to patients and families.

I have had the privilege to be associated with a number of fellowship programs during the past ten years. The fellow program at Bioverativ will afford you the opportunity to work in a diverse role, gaining invaluable experience while making an impact. If you have the drive to make a difference, consider the Bioverativ fellowship program.

Payal Patel, PharmD
Executive Director – Regulatory Advertising and Promotions
Our Pipeline

Beginning with hemophilia, we will lead by doing what’s right for patients and those who care for them, and by actively working with the blood disorders community to accelerate innovation and develop life-changing treatments.

<table>
<thead>
<tr>
<th>Pipeline Item</th>
<th>Disease/Condition</th>
<th>Technology</th>
<th>Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sutimlimab</td>
<td>Cold agglutinin disease</td>
<td>Biologic</td>
<td>Phase III</td>
</tr>
<tr>
<td>BIVV001</td>
<td>Hemophilia A</td>
<td>Biologic</td>
<td>Phase I/II</td>
</tr>
<tr>
<td>Collaboration with Sangamo Therapeutics</td>
<td>Beta thalassemia, Sickle cell disease</td>
<td>Genome Editing</td>
<td>Phase I/II</td>
</tr>
<tr>
<td>BIVV002</td>
<td>Hemophilia B</td>
<td>Biologic</td>
<td>Preclinical</td>
</tr>
<tr>
<td>BIVV020</td>
<td>Cold agglutinin disease</td>
<td>Biologic</td>
<td>Preclinical</td>
</tr>
<tr>
<td>Collaboration with San Raffaele-TIGET</td>
<td>Hemophilia A, Hemophilia B</td>
<td>Gene Therapy</td>
<td>Discovery</td>
</tr>
<tr>
<td>FVIIIa mimetic bispecific antibody program</td>
<td>Hemophilia A; Inhibitors</td>
<td>Biologic</td>
<td>Discovery</td>
</tr>
<tr>
<td>Multiple early stage programs</td>
<td>Sickle cell disease</td>
<td>Sm. Molecules</td>
<td>Discovery</td>
</tr>
</tbody>
</table>
Science matters. Because patients matter.
Global Medical Fellowship (1)

Bioverativ’s Medical organization informs real-world medical practice and optimizes patient outcomes by generating, assimilating, and delivering clear, timely, clinically relevant information that addresses unmet medical needs.

We do this by providing support to Research & Development and Global Commercial Operations, and by being responsible for clinical development and research, medical publications, biostatistics, medical education, and many other services. Medical is also responsible for providing healthcare professionals, regulatory agencies, and professional groups with the medical and scientific information they need to understand our company’s products.

Throughout the medical fellowship program, Fellows will have the opportunity to explore the different functional areas within Medical: Scientific Communications, Medical Directors, and Real-World Evidence/Medical Research. The Fellow will also pick one elective to prepare them for a career within the biopharmaceutical industry.

**Core Rotations**

<table>
<thead>
<tr>
<th>Scientific Communications</th>
<th>Medical Directors</th>
<th>Real-World Evidence</th>
<th>Elective Rotation</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 months</td>
<td>6 months</td>
<td>6 months</td>
<td>6 months</td>
</tr>
</tbody>
</table>

**Elective Rotations**

- Health Economics & Outcomes Research
- Market Access
- Regulatory Affairs
- Patient Services
- Field Medical
- Marketing
- Advocacy
Global Regulatory Fellowship

Not Recruiting

The global regulatory (GRA) fellowship is designed to provide advanced, hands-on experience through rotational opportunities within advertising and promotion, labeling, and regulatory science to develop a well-rounded industry professional in a GRA function. The Fellow will rotate through advertising and promotion (AP), labelling and regulatory science with elective options in a variety of areas including medical and commercial.

Our GRA fellowship is designed to enable you to build a strong skill set so that you can be prepared for a successful career in industry, no matter what it is. We strongly encourage you to consider the Bioverativ GRA fellowship.

Core Rotations

- Advertising and Promotion: 6 months
- Regulatory Labeling: 6 months
- Regulatory Science: 6 months

Elective Rotations

- Health Economics & Outcomes Research
- Market Access
- Regulatory Affairs
- Patient Services
- Field Medical
- Marketing
- Advocacy
The Global Medical Affairs (GMA) fellowship challenges me to develop analytical skills, leadership, and confidence. I collaborate cross-functionally with my colleagues to deliver and educate healthcare professionals on our innovative and life changing therapies. I have the opportunity to work with experts on longitudinal projects from ideation to execution. You’ll be immersed in an environment that fosters growth and promotes success, two ingredients that will ultimately empower you to become a leader in the pharmaceutical industry.” - Kevin Loh, Global Medical Affairs Fellow

“The Bioverativ Global Regulatory Affairs (GRA) Fellowship has granted me the opportunity to develop both personally and professionally while working cross-functionally to develop material that will be disseminated on a broad scale. I have the privilege to provide guidance to our teams, ultimately delivering key messages to educate consumers, health care providers, and payors on therapeutic areas with high unmet need. As a fellow at Bioverativ, you will be able to assist in revolutionizing the landscape of therapeutic areas in hemophilia, cold agglutin disease, as well as other rare blood disorders.” – Patrick Forlenza, Global Regulatory Affairs Fellow
We are thrilled to continue to develop the Bioverativ/Northeastern University partnership and are excited to recruit for 2019-2021. We are experiencing tremendous growth in the Northeastern affiliated industry network, leveraging the dynamic biomedical industry in the greater Boston area. We now have more opportunities than ever for teaching and scholarly collaboration between fellows, students, and faculty, and I look forward to working with our present and future fellows.

Michael J. Gonyeau, BS, PharmD, MEd, FNAP, FCCP, BCPS, RPh  
Clinical Professor  
Faculty Coordinator: Bioverativ Fellowship  
School of Pharmacy, Northeastern University
Northeastern University is a global, experiential, research university built on a tradition of engagement with the world, creating a distinctive approach to education and research. At Northeastern, we encourage our students to become engaged, confident, and resourceful global citizens who realize their knowledge and actions have a far-reaching impact. Students ignite their passion for learning and are exposed to the endless possibilities around them through transformative experiential education.

THE NORTHEASTERN FELLOWSHIP DIFFERENCE
The Northeastern University Fellowship Program provides a dynamic academic environment offering fellows the opportunity to gain a wide range of large group didactic and small group practice-related teaching experiences. Fellows are also provided with several opportunities to engage with students utilizing a layered learning model, from co-precepting students within Northeastern’s unique co-op program to the incorporation of students within research and scholarship initiatives.

WHAT YOU WILL EXPERIENCE
- Apply teaching and learning seminar skills to facilitate small and large group classroom teaching with faculty mentors
- Co-precept students on co-op education and advanced pharmacy practice experiences
- Create and publish scholarly research and review articles with a faculty advisor
- Present research at scientific and clinical meetings
- Collaborate with fellows & residents in Boston during professional development/teaching seminars
- Engage with faculty who participate in various interdisciplinary graduate programs including biotechnology, nanomedicine, immunology, health informatics, and drug discovery
CURRENT PARTNERS OF THE NORTHEASTERN UNIVERSITY FELLOWSHIP PROGRAM

Northeastern University has developed several new partnerships with pharmaceutical companies within the greater Boston area.

These exciting new partnerships create a large network of postdoctoral fellows. Fellows have opportunities to collaborate and learn from each other, thereby strengthening their experience and further positioning them to be successful in a multitude of industry settings.

Life in Boston

Northeastern University is in the heart of Boston, steps away from the famous Fenway Park and downtown Boston. We are surrounded by top tier academic and research institutions: Harvard, Massachusetts Institute of Technology, Massachusetts General Hospital, Brigham & Women’s Hospital, Broad Institute, and more. The area is teeming with pioneers of innovation who are committed to intellectual curiosity and scientific advancement. The greater Boston area is a melting pot of culture, offering world-class attractions and rich history.

NUfellowship.com
Application Process

The Bioverativ fellows will be selected on a nationally competitive basis. All candidates must have a Doctor of Pharmacy degree from an ACPE-accredited college of pharmacy by June 30, 2019. Candidates who wish to apply must submit their formal application to Northeastern University’s job website by December 15th, 2018.

APPLICATION TIMELINE AND STEPS

<table>
<thead>
<tr>
<th>September</th>
<th>October</th>
<th>November</th>
<th>December</th>
<th>January</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Application</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rolling Application</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Phone Interviews</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. ASHP Midyear</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12/02 - 12/04</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Onsite Interviews</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Post-Midyear</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**1. Application**
- Complete application by December 15, 2018
- Applications are reviewed on a rolling basis - apply early!

**Required materials**:  
- Curriculum Vitae (CV)  
- Unofficial college transcript  
- Letter of intent  
- List of 3 references

**2. Phone Interviews**
- Eligible candidates are offered phone interviews based on completion of NU application  
- Phone interviews are offered on a rolling basis prior to ASHP Midyear – apply early!

**3. ASHP Midyear**
- Eligible candidates offered interviews at ASHP Midyear  
- Midyear reception attendance upon invitation

**4. Onsite Interviews**
- Onsite interviews offered upon successful completion of Steps 1-3  
- Fellowship offers extended to candidates

*Letters of Recommendation are not required until formally requested

Questions?

For answers to frequently asked questions and for other information…
  Visit: NUfellowship.com  
  Email: fellowships@Bioverativ.com

Address your letter of intent and letters of recommendation to:

**J. Andrew Skirvin, PharmD, BCOP**  
Associate Clinical Professor, School of Pharmacy  
Interim Department Chair  
Department of Pharmacy & Health System Sciences  
140 Fenway Building, Mail Stop R 218  
Bouve College of Health Sciences  
360 Huntington Ave  
Boston, MA 02115

Bioverativ
A SANOFI COMPANY
Science matters. Because patients matter.

Bioverativ
A SANOFI COMPANY