PharmD Post-Doctoral Fellowship Program
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At Alnylam, we are leading the advancement of an entirely new class of medicines known as RNA interference, or RNAi. Utilizing this Nobel Prize winning technology, we have developed a robust pipeline through our 3 Strategic Therapeutic Areas (STArs): Genetic Medicines, Cardio-Metabolic, and Hepatic Infectious Diseases.

We pride ourselves in our core values: commitment to people, innovation and discovery, sense of urgency, open culture and passion for excellence, and are seeking Fellows that would thrive in such an environment. Alnylam offers Fellows a unique opportunity to join a company transitioning to a top-tier, independent, commercial stage biopharmaceutical company. The Fellows will be positioned to gain experience in a wide range of functional and therapeutic areas and take on multiple roles within the company. It is truly an exciting time to be at Alnylam and we are thrilled to have PharmD Fellows be a part of the company’s growth. I have no doubts that this will be an invaluable and unparalleled opportunity to begin an exceptional and successful career in the biopharmaceutical industry.

I strongly encourage you to consider Alnylam in your Fellowship selection process and wish you the best in your post graduate interview and application process.

Sincerely,

Akshay Vaishnaw, MD, PhD
Executive Vice President of Research and Development and Chief Medical Officer of Alnylam Pharmaceuticals
Alnylam was founded in 2002 on a revolutionary vision and bold mission which remain firmly in place today.

**Vision:**
Harnessing a revolution in biology for human health®

**Mission:**
Build a top-tier biopharmaceutical company founded on RNAi
Alnylam’s Science and RNAi Platform

The discovery of RNA interference (RNAi) has been heralded as a major scientific breakthrough and represents one of the most promising advancing frontiers in drug development today. RNAi is a natural process of gene silencing that occurs in organisms ranging from plants to mammals. By harnessing the natural biological process of RNAi occurring in our cells, the creation of a major new class of medicines, known as RNAi therapeutics, is on the horizon. RNAi therapeutics target the ‘root’ genetic cause of diseases by potently silencing specific messenger RNA (mRNA), thereby preventing disease-causing proteins from being made. RNAi therapeutics are a class of oligonucleotide or nucleic acid based drugs that have the potential to treat disease and help patients in a fundamentally new way.

Alnylam has developed a new strategy to trigger RNAi in mammalian cells using relatively small double-stranded RNAs (dsRNAs)—long enough to induce RNAi, but small enough to avoid inducing an immune response. Alnylam founders were the first to show that smaller dsRNAs, known as “small interfering RNAs” (siRNAs), bind to mRNAs and silence disease causing genes. These discoveries opened the door for application of RNAi as a new therapeutic strategy. Alnylam was founded in June 2002 with the focus of advancing RNAi therapeutics as a new class of innovative medicines.

siRNA-RISC Mediated Cleavage  *(Occurs in Cytoplasm)*
In January 2015, we launched our “Alnylam 2020” guidance for the advancement and commercialization of RNAi therapeutics as a whole new class of innovative medicines. We expect to achieve a company profile across three Strategic Therapeutic Areas (STArs), which include Genetic Medicines, Cardio-Metabolic Diseases, and Hepatic Infectious Diseases.

“Alnylam 2020” marks our expected transition from a late-stage clinical development company to a multi-product commercial-stage company with a robust and sustainable development pipeline—a profile that we believe has rarely been achieved in the biopharmaceutical industry.
COMBINING A TOP TIER ACADEMIC INSTITUTION WITH A REVOLUTIONARY BIOTECH COMPANY
The Alnylam Pharmaceuticals and Northeastern University Fellowship Program offers all aspects of a traditional industry Fellowship in the setting of a leading biotechnology company based in the heart of Cambridge, Massachusetts. The Fellowship Program offers two-year positions that place an emphasis on RNAi therapeutics toward genetically defined targets for the treatment of serious, life threatening diseases with limited treatment options.

Fellows have the opportunity to individualize a set of elective rotations through various expertise areas. These rotations will allow the Fellows to gain insight into the integral and strategic roles of various functions within Alnylam throughout a product’s lifecycle. The Fellows will remain integrated in their core area of expertise and be responsible for longitudinal projects.

### ELECTIVE ROTATIONS

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### BENEFITS AND COMPENSATION

As Northeastern University employees, the Fellows will be provided with a competitive salary and benefits package, including the opportunity for tuition waiver benefits. Northeastern is committed to providing faculty and staff with comprehensive benefit programs that enable them to invest in their health and well-being. A full description of available Northeastern benefits may be found on their website.

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To train in such an environment will give the Fellows a unique perspective on the biopharmaceutical industry and provide a strong foundation for success in their careers.

Annie Partisano, PharmD, MS, RPh, CMPP  Director, Medical Communications and Publications, Alnylam Fellowship Director
Medical Affairs

**ACTIVELY RECRUITING:** 1 Fellow

The core purpose of Medical Affairs at Alnylam is to engage in balanced, in-depth scientific and clinical data generation and exchange with Key Opinion Leaders (KOLs) to bring innovative and value-added healthcare solutions to patients. Medical Affairs plays a critical role in investigator sponsored trials, publications, medical education, including Independent Medical Education (IME) and grant support, KOL engagement, medical meeting activities, advisory boards, and support for Alnylam sponsored trials, all of which are necessary to ensure the safe, effective, and appropriate use of our investigational agents.

**CORE MEDICAL AFFAIRS ROTATIONS**
- Medical Communications and Publications
- Patient Advocacy
- Health Economics and Outcomes Research
- Field Medical

**LONGITUDINAL ACTIVITIES**
- Medical Affairs operational support
- Metric analysis and reporting
- Publication planning
- Clinical and scientific literature insights

“The Fellows become an integral part of the organization from the very beginning and are valued highly by the teams they work with. Having completed a Fellowship myself, I aim to ensure that the Fellows take on a high level of ownership with appropriate mentorship in their broad, yet in-depth, experiences, which will prepare them for a successful career in the biotech industry.”

*Amy Monpara, PharmD*
Manager, Medical Communications and Publications, Medical Affairs Preceptor

“The open culture and sense of urgency at Alnylam is conducive to an ideal Fellowship learning environment that provides the necessary support and keeps you on your toes. Additionally, the opportunities to teach at Northeastern and participate in scholarly activities with faculty members and students round out a diverse Fellowship experience.”

*Alex Wei, PharmD*
Second Year Medical Affairs Fellow

“As an Alnylam and Northeastern Fellow, I have the opportunity to be a part of bringing life-saving therapies to patients with a high unmet need. I am excited to be a part of a program so dedicated to its patients and pushing the boundaries of science.”

*Anastasia Shmukler, PharmD*
First Year Medical Affairs Fellow
Regulatory Affairs

**ACTIVELY RECRUITING:** 1 Fellow

The Regulatory Affairs Department at Alnylam is a diverse group with scientific, technical, and clinical expertise that works collaboratively to manage the regulatory aspects of Alnylam products, including generation and filing of clinical trial applications, orphan drug applications, pediatric investigational plans, data packages for expedited regulatory review pathways and incentive programs, and marketing applications globally. The main focus of this Fellowship is in Regulatory Strategy and core activities include providing strategic non-clinical and clinical regulatory insights to the development teams in all phases of drug development.

**CORE REGULATORY AFFAIRS ROTATIONS**
- Regulatory Strategy
- Chemistry Manufacturing and Controls (CMC)
- Regulatory Technology and Operations

**LONGITUDINAL ACTIVITIES**
- Regulatory intelligence, surveillance, analysis, and reporting
- Regulatory submission and filing support
- Regulatory annual report generation, management, and submission
- Internal regulatory correspondence support, analysis, and trending

“Alnylam offers Fellows an unparalleled experience to contribute to the regulatory development of our products on all phases of drug development. Through gaining valuable hands-on experience, the Fellow will lay the foundation for a successful career within the biopharmaceutical industry.”

Lauren Melton, MS, RAC  
Director, Regulatory Affairs, Regulatory Affairs Preceptor

“The unique regulatory environment surrounding RNAi therapeutics combined with the drug development strategies utilized in the rare disease space offers a fast-paced and unprecedented learning experience.”

Dayna LeSueur, PharmD  
First Year Regulatory Affairs Fellow
Health Economics and Outcomes Research

**ACTIVELY RECRUITING:** 1 Fellow

The core purpose of Health Economics and Outcomes Research (HEOR) at Alnylam is to lead evidence generation and value demonstration activities in partnership with clinical development and the commercial team to ensure patients have access to our therapies. The Fellow will gain in-depth training and hands on experience in health economics and outcomes research methodologies to scientifically evaluate the economic, clinical, and humanistic outcomes of healthcare interventions through systematic literature reviews, indirect comparisons, and quality of life assessments.

**CORE HEOR ROTATIONS**
- Market Access
- Publications
- Patient Advocacy
- Field Medical

**LONGITUDINAL ACTIVITIES**
- Evidence mapping and planning
- Conducting retrospective database analyses
- Developing cost-effectiveness models
- Developing Patient Reported Outcomes (PRO) strategy

“The Alnylam and Northeastern Fellowship is a great way to integrate your pharmacy training in a cross-functional and dynamic biotech environment to develop integral skills needed for success in the HEOR field.”

Sonalee Agrawal, BPharm, PhD
Senior Director, HEOR, HEOR Preceptor
At Northeastern, we make a meaningful impact in both our local communities and the world by using our knowledge and resources as forces of change. Through a collaborative approach involving partnerships between governments, industries, artists, innovators, scholars, and through the translation of fundamental research into applications, we contribute to economic development and enhance societal well-being.

At Northeastern, we encourage our students to become engaged citizens of the world, confident, and resourceful people who realize that their knowledge and actions have positive effects on their own lives and those of others. Students ignite their passion for learning and are exposed to the endless possibilities around them through transformative experiential education. The School of Pharmacy provides a dynamic academic environment to guide and support Fellows toward successful careers in the biopharmaceutical industry and offers the opportunity to gain teaching and research experiences in an academic setting. The Northeastern faculty and Alnylam Fellowship preceptors mentor Fellows according to the Fellows’ scholarly and professional interests throughout the two-year program. As visiting scholars at the School of Pharmacy, fellows will:

• Teach and coordinate courses and facilitate seminars and laboratories
• Co-precept students on advanced pharmacy practice experiences
• Create and publish scholarly research and review articles
• Present research at scientific and clinical meetings
• Collaborate with fellows and residents in the Boston area on professional development and teaching seminars

The Northeastern and Alnylam partnership provides exciting opportunities for the Fellows to gain valuable experience in academia, and to share their industry experience with our students.

Mark A. Douglass, PharmD, RPh
Northeastern Fellowship Program Director, Associate Clinical Professor Northeastern University
Thank you for your interest in the Alnylam Pharmaceuticals and Northeastern University PharmD Post-Doctoral Fellowship Program.

Fellows will be selected on a nationally competitive basis and candidates must have a Doctor of Pharmacy degree from an ACPE-accredited college of pharmacy by June 30, 2017. Candidates who wish to apply must submit their formal application to Northeastern University’s job website no later than December 1, 2016.

Application requirements include:

- Cover Letter & Curriculum Vitae (CV)
- Unofficial College transcript (paper or electronic)
- 3 Letters of recommendation (sent directly from the reference’s email)

For posting information or to apply for any of these positions, please visit: www.northeastern.edu/bouve/pharmacy/fellowships

APPLICATION TIMELINE

The deadline for all application materials is December 1st, 2016. Applications will be reviewed on a rolling basis; therefore we strongly encourage applicants to submit their cover letter and CV early due to the competitive nature of the Fellowship selection process. Official transcripts will be required if an on-site interview is scheduled.

PARTICIPATION AT MIDYEAR

Alnylam will be participating in the Personnel Placement Service (PPS) at the ASHP Midyear Clinical Meeting. Applicants who have submitted a formal application will receive information on scheduling an interview at the ASHP Midyear Clinical Meeting.

Application inquiries should be addressed and electronically submitted to:
Mark Douglass, PharmD, RPh
Associate Clinical Professor and Northeastern and Alnylam Fellowship Program Director
School of Pharmacy
AlnylamFellowship@neu.edu

Questions regarding the Fellowship Program or Alnylam Pharmaceuticals:
Fellowship@alnylam.com