Moderna's PharmD Fellowship Program

moderna

MCPHS
BIOPHARMACEUTICAL INDUSTRY
FELLOWSHIP PROGRAM

INDEX

Moderna, in collaboration with MCPHS, is pleased to offer this unique postdoctoral fellowship program to expose qualified Doctor of Pharmacy graduates to the biopharmaceutical industry, and to enhance the role of pharmacists within this field. The fellowship is two years in duration and will be based out of Moderna's headquarters in Cambridge, Massachusetts.

"

Stéphane Bancel
Chief Executive Officer of Moderna

Company Background

In over 10 years since its inception, Moderna has transformed from a research-stage company advancing programs in the field of messenger RNA (mRNA), to an enterprise with a diverse clinical portfolio of vaccines and therapeutics across seven modalities, a broad intellectual property portfolio in areas including mRNA and lipid nanoparticle formulation, and an integrated manufacturing plant that allows for rapid clinical and commercial production at scale. Moderna maintains alliances with a broad range of domestic and overseas government and commercial collaborators, which has allowed for the pursuit of both groundbreaking science and rapid scaling of manufacturing.

Moderna's mRNA platform builds on continuous advances in basic and applied mRNA science, delivery technology and manufacturing, and has allowed the development of therapeutics and vaccines for infectious diseases, immuno-oncology, rare diseases, cardiovascular diseases and auto-immune diseases. Moderna has been named a top biopharmaceutical employer by *Science* for the past eight years. To learn more, visit www.modernatx.com.

Moderna's mission is to deliver the greatest possible impact to people through mRNA medicines.

Company Overview

Moderna as of August 2023

Pipeline

Commercial
Moderna COVID-19 Vaccine/Spikevax®

6 in Phase 3
COVID-19 boosters, Flu, RSV, CMV, Next-generation COVID-19, INT

7 in Phase 2
Zika, PA, VEGF-A, Next-gen Flu

47 development programs

Programs in development

Respiratory vaccines
- COVID-19; next-gen COVID-19
- Older adults RSV; pediatric RSV
- Flu; next-gen flu; pandemic flu
- Flu + COVID-19, flu + COVID-19 + RSV and flu + RSV
- Next-gen combinations
- hMPV + PIV3
- RSV + hMPV, endemic HCoV

Latent vaccines
- CMV
- EBV
- HIV
- VZV
- HSV

Emerging vaccines
- Zika
- Nipah
- Norovirus
- Lyme

mRNA therapeutics
15 medicines in 4 therapeutic areas
- 5 Immuno-Oncology
- 7 Rare Diseases
- 2 Cardiovascular Diseases
- 1 Autoimmune Disease

Foundations

~5,150 employees[1]

Great Place To Work. Officially recognized as a Great Place to Work in the U.S. by Great Place To Work®

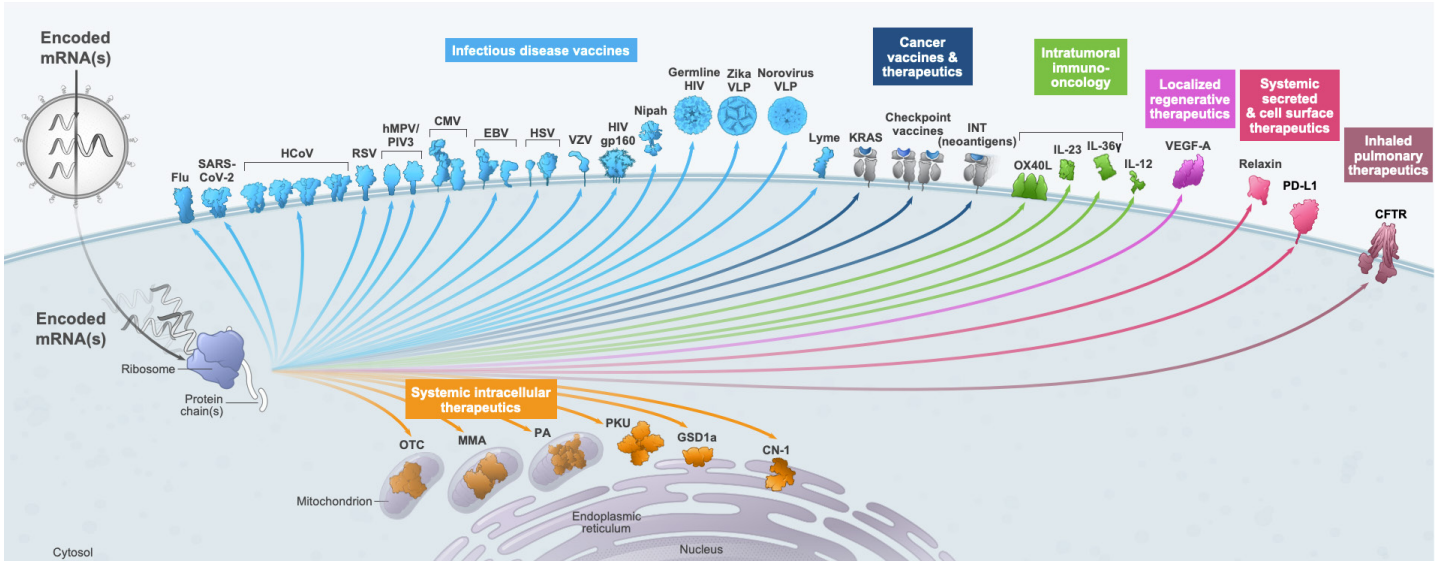
17 commercial subsidiaries across North America, Europe and Asia Pacific

~$14.6B of cash and investments [1]

1. As of June 30, 2023

Moderna's Pipeline

Moderna's Pipeline as of August 2023



Our mRNA pipeline shows the progress we're making on clinical programs currently in development to create mRNA medicines for a wide range of diseases and conditions. We are proud of the advancements we've made in pioneering new vaccines and therapeutics that may have the potential to treat rare diseases like Methylmalonic Acidemia (MMA) and Propionic Acidemia (PA), and prevent disease such as Cytomegalovirus (CMV), Zika and cancers.

Click Here for Moderna's Pipeline

Moderna's Values

Our values are built on a foundation of quality, integrity, and respect.

Bold

Deliver on the promise of mRNA technology to transform the lives of patients.
Be a visionary.

Collaborative

Accomplish goals by working together and respecting others' viewpoints.
Be a part of one team.

Curious

Seek to challenge and improve upon the status quo.
Be innovative.

Relentless

Stay undaunted by challenges and build quickly on successes.
Be tenacious in pursuit of our mission for patients.

Moderna's Mindsets

We act with urgency
Action today compounds the lives saved tomorrow.

We pursue options in parallel
to make the best choice later.

We accept risk
as the only path to impact.

We obsess over learning
We don't have to be the smartest—we have to learn the fastest.

We pivot fearlessly
in the face of new data.

We question convention
because proven models don't always fuel the future.

We push past possible
because greatness lives outside of comfort zones.

We behave like owners
The solutions we're building go beyond any job description.

We act with dynamic range
driving strategy and execution at the same time and at every step.

We remove viscosity
to encourage collective action.

We prioritize the platform
over any single product.

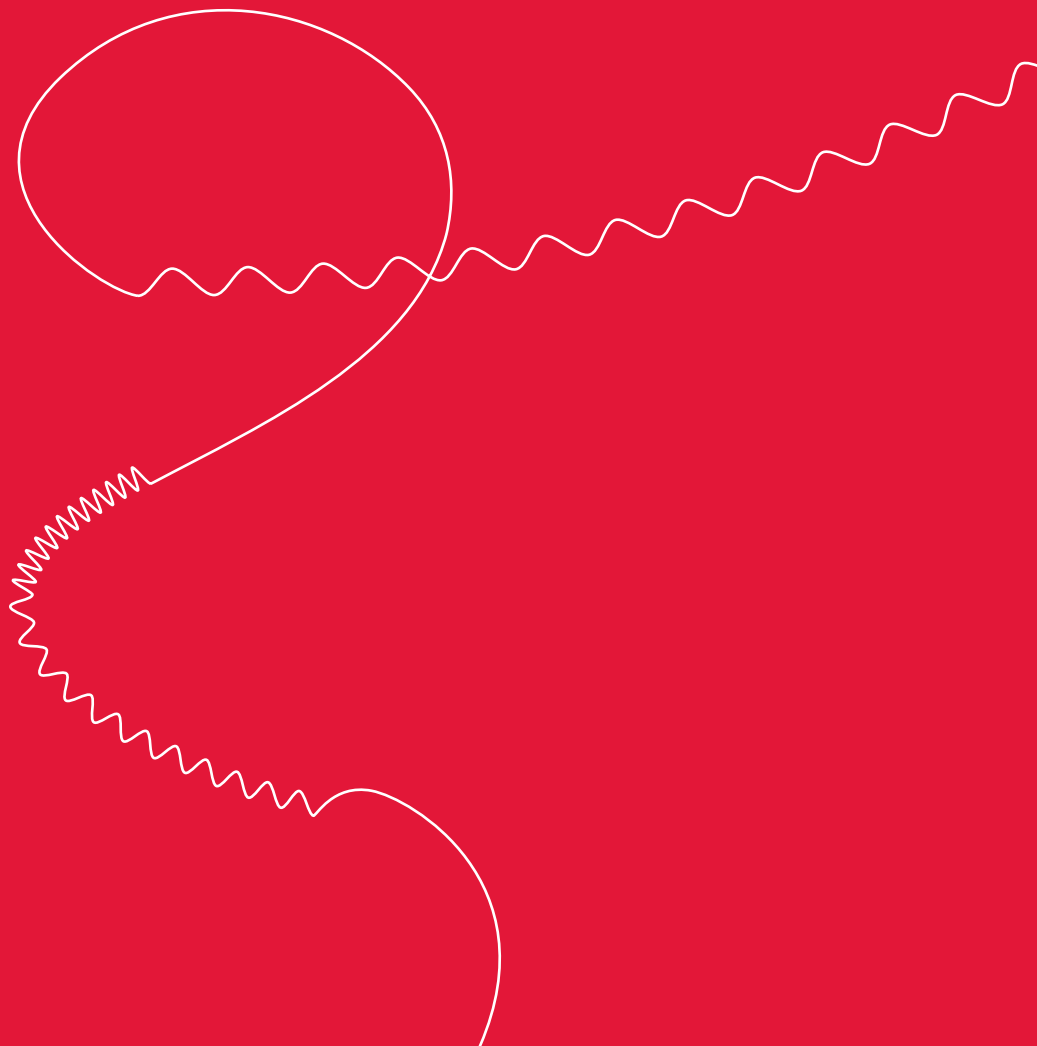
We digitize everywhere possible
using the power of digital information to maximize our impact on patients.

Fellowship Offerings 2024

Global Regulatory Science
(1 Position)

Clinical Safety and Pharmacovigilance
(1 Position)

Clinical Development Operations
(1 Position)



Global Regulatory Science

1 Position

The Global Regulatory Science (GRS) department drives rapid and efficient development of molecules and medicinal products derived from an mRNA platform. We hope to ensure patient access to transformative therapies, while building a sustainable and resilient function within Moderna. The fellow will join the Global Regulatory Science team in Cambridge, Massachusetts.

The 2-year Global Regulatory Science Program will provide PharmD graduates the opportunity to gain rapid experience in the pharmaceutical industry within Regulatory Science while working on diverse projects to deepen their understanding of product development.

The fellow will focus on Regulatory Strategy and take part in projects covering 2-3 regulatory specialties, including:

- Regulatory Advertising and Promotion
- Regulatory Labeling
- Regulatory Policy
- Regulatory Operations
- Regulatory CMC
- International Regulatory Affairs

Projects will be assigned based on the fellow's areas of interest and available opportunities to build the fellow's competencies as a regulatory professional. Additionally, the fellow will have the option to take part in a 1-3 month rotation in another department outside of Global Regulatory Science at Moderna.

GRS CURRENT FELLOWS

Erin Supko, PharmD
First-Year Fellow
University of Connecticut

Anna Prisco, PharmD, RPh
Second-Year Fellow
University of Connecticut

GRS FELLOWSHIP CORE TEAM

Asli Santos, PharmD, RAC
Executive Director, Oncology Strategy Lead, Global Regulatory Science
Head of PharmD Fellowship Programs at Moderna, GRS Program Lead

Kevin Hollister, MS, MBA, MPH
Head of Global Regulatory Advertising and Promotion

Stacie Greenwood, PharmD, RAC-Drugs
Associate Director, Regulatory Affairs
GRS PharmD Fellowship Preceptor

Julie Romanelli, MS, MPH
Director Global Regulatory Advertising and Promotion

Carly Schaechter, PharmD
Senior Manager Global Regulatory Advertising and Promotion

Charbel Haber, MPH, PhD, MBA
Head of Global Regulatory Science at Moderna

Clinical Safety and Pharmacovigilance

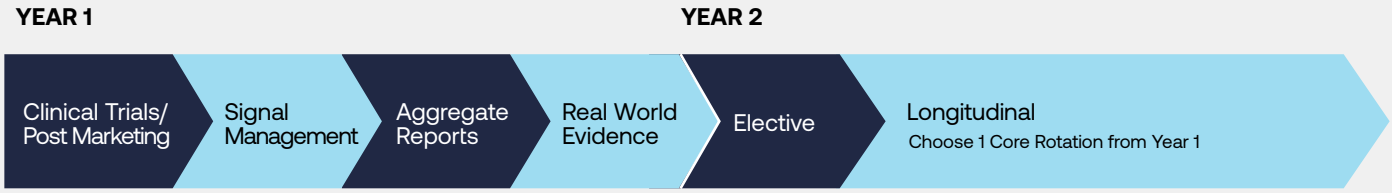
1 Position

Moderna Clinical Safety and Pharmacovigilance (CSPV) is committed to global health surveillance and patient safety for advancing clinical safety with next generation mRNA science. The two-year CSPV Fellowship will provide PharmD graduates with a fast-paced immersion and introduction to the pharmaceutical industry across multiple therapeutic areas from clinical trials to marketed products. As integral members of the Moderna team, fellows will acquire practical experience through direct engagement with subject matter experts, participate in cross-functional team collaborations, and benefit from valuable networking and mentorship opportunities.

The fellow will engage in diverse projects from a benefit-risk analysis perspective including:

- Contribute to Clinical Safety Science and the clinical trial portfolio, individual case assessments, safety monitoring, medical review, and health authority requests
- Participation in Real World Evidence programs to address postmarket commitments, assess disproportionality, and evaluate safety signals
- Understand the Signal Management Process including exposure to safety governance, data analytics, routine and postmarketing surveillance
- Develop Aggregate Reports and understand the landscape of pre and post product submission activities including developmental, annual, and periodic safety reports

Two Year CSPV Fellowship Timeline



The Core and Elective Rotations are 3 months each, and the Longitudinal Rotation is 9 months.

The fellow will have the opportunity to spend several months in an optional elective of their choosing: Global Regulatory Sciences, Clinical Development Operations, or Medical Affairs.

CSPV CURRENT FELLOW

Natalie Ourfalian, PharmD
First-Year Fellow
Massachusetts College of Pharmacy and Health Sciences

CSPV FELLOWSHIP CORE TEAM

Magalie Emilebacker, PharmD, CCRP
Director, Clinical Safety Scientist
CSPV PharmD Fellowship Program Lead

Melissa Rossi, MPH
Head of Clinical Safety Sciences

Tony Rizk, PharmD
Clinical Safety Scientist

Daina Esposito, PhD, MPH
Executive Director, Global Safety Epidemiology, Real World Evidence

Patty Tribulski, RN, BSN
Senior Director, Pharmacovigilance Scientist

Margot Stam Moraga, MS, MPH
Senior Director, Head of Signal Management

Rose Coley, PhD
Director, Aggregate Safety Reporting

Kinjal Kashyap, PharmD
Director, Risk Management

Clinical Development Operations

1 Position

The Clinical Development Organization (CDO) at Moderna is at the heart of making novel mRNA medicines a reality for a wide range of diseases and conditions. The functions that make up the CDO are collectively responsible for input to the strategic planning for Program Teams (Program Management), maintaining the portfolio health (Governance and Portfolio Operations), input to the design and execution of all clinical trials (Clinical Operations, Drug Supply, Patient and Site Experience), delivery of accurate data to support decision-making and global regulatory interactions/submissions (Biostatistics, Biomarkers, and Data Management), and bringing to fruition innovative ways to optimize clinical development (Strategic Operations). The PharmD Fellow would be placed in this dynamic organization and given a plethora of opportunities to learn the business of drug and vaccine development in one of the fastest paced and fastest growing biotechnology companies in the world today – Moderna, in Cambridge, Massachusetts.

The 2-year CDO PharmD fellowship will include 10 months in Clinical Operations and 10 months in Program Management. A Fellow can choose from one of the elective CDO functions below for 3 months, in between the required Functional rotations in Clinical Operations and Program Management.

Required

- Clinical Operations
- Program Management

Elective

- Clinical Drug Supply Management
- Governance and Portfolio Operations
- Biomarkers
- Patient and Site Experience

Projects will be assigned based on the Fellow's area of interest and available opportunities to build the Fellow's competencies as a diverse CDO professional.

CDO CURRENT FELLOW

Daniel Thifault, PharmD, RPh
First-Year Fellow
Northeastern University

CDO FELLOWSHIP CORE TEAM

Christina Kim, PharmD
Director of Program Management, Infectious Disease
CDO PharmD Fellowship Program Lead

Runa Mithani, PharmD
Director, Clinical Operations, Infectious Disease
CDO PharmD Fellowship Preceptor

Melanie Ivarsson OBE, PhD, MBA
Chief Development Officer

Diane Montross, BS
Executive Director, Patient and Site Experience

Jean-Claude Marshall, PhD
Vice President, Clinical Biomarkers

Joseph Iacobucci, MBA
Sr. Director, Clinical Supply

Natasha Pascoe, PhD
Director, Governance and Portfolio Operations

MCPHS Biopharmaceutical Industry Fellowship Program

MCPHS

MCPHS 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 health sciences, MCPHS offers programs that embody scholarship, professional service, and community outreach.

Through MCPHS, fellows will have the opportunity to gain teaching and scholarship experience. Throughout the program, MCPHS faculty will be paired with fellows to mentor them and help them achieve their teaching and scholarly goals.

As a postdoctoral fellow at MCPHS, each fellow may have the opportunity to

- Develop, coordinate, and teach pharmacy courses
- Co-precept students on advanced experiential rotations
- Assist in the publication of scholarly research and review articles
- Present data at scientific and clinical meetings
- Participate in professional development seminars

MCPHS PHARMD FELLOWSHIP PROGRAM TEAM

Amee Mistry, PharmD, RPh

Director of the Postdoctoral Biopharmaceutical Industry Fellowship Program

Dr. Amee Mistry is Professor of Pharmacy Practice and has been with MCPHS since 2006. Dr. Mistry earned her PharmD at the Albany College of Pharmacy and completed a PGY1 Community Practice Residency with Walgreens and MCPHS. 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.

Samantha Nganju, BA

Fellowship Program Manager MCPHS

Tara Miskell

Program Coordinator MCPHS

Application & Recruitment Process

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 two year fellowship. No visa sponsorship will be provided (i.e., TN, H-1B, STEM OPT, etc.).

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

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

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

ROLLING APPLICATION REVIEW & INTERVIEWS
All submitted applications will be reviewed on a rolling basis. Interviews will also be offered on a rolling basis and opportunities are limited. Priority will be given to those applicants who apply early, well in advance of the deadline.

Rolling interviews will begin mid-October with pre-screens and a mixture of interview rounds, and will continue into December. Candidates will be notified if selected for an interview.

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

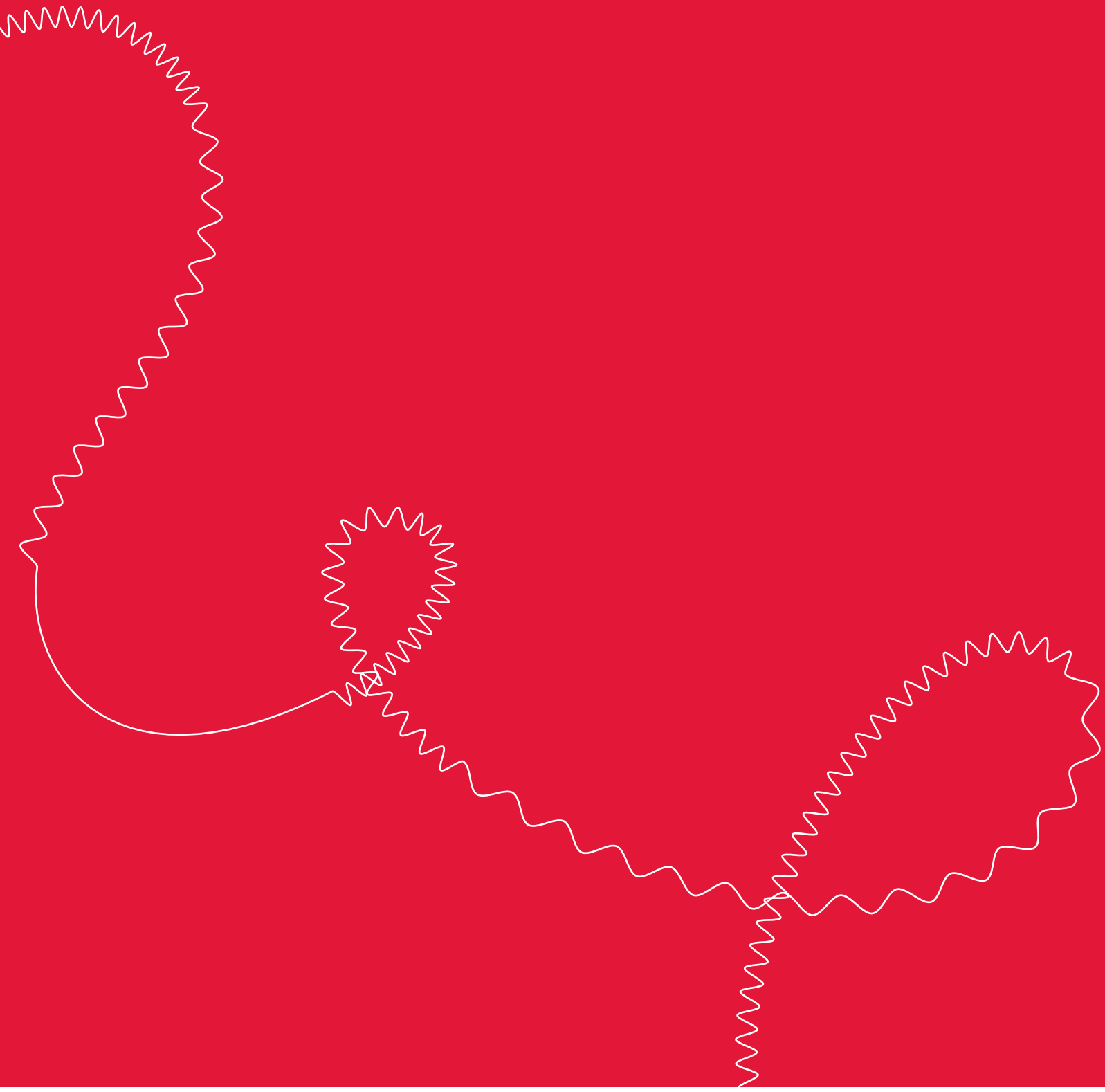
Top candidates may be invited for interviews at the sponsoring company's location.

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

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

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

Please visit the MCPHS biopharmaceutical industry fellowship website for more information:
https://www.mcphs.edu/faculty-and-research/fellowships-and-residencies/biopharmaceutical-fellowships



moderna®

MCPHS
BIOPHARMACEUTICAL INDUSTRY
FELLOWSHIP PROGRAM