ABOUT OUR COMPANY

Allergan plc (NYSE: AGN), headquartered in Dublin, Ireland, is a bold, global pharmaceutical leader. Allergan is focused on developing, manufacturing and commercializing branded pharmaceutical, device, biologic, surgical and regenerative medicine products for patients around the world.

Allergan markets a portfolio of leading brands and best-in-class products for the central nervous system, eye care, medical aesthetics and dermatology, gastroenterology, women’s health, urology and anti-infective therapeutic categories.

Allergan is an industry leader in Open Science, a model of research and development, which defines our approach to identifying and developing game-changing ideas and innovation for better patient care. With this approach, Allergan has built one of the broadest development pipelines in the pharmaceutical industry.

For more information, visit Allergan’s website at www.Allergan.com.

ABOUT OUR SCHOOL

The USC School of Pharmacy is the only private pharmacy school on a major health sciences campus, which includes the Keck School of Medicine, Keck Hospital of USC and the USC Norris Comprehensive Cancer Center and is immediately adjacent to the LAC+USC Medical Center, one of the largest public hospitals in the country. Ranked by US News and World Report as a top ten pharmacy school nationwide and #1 among private schools, the USC School of Pharmacy is recognized for its century-old reputation for innovation in pharmaceutical education, clinical practice, and research. The School uniquely spans the entire spectrum of pharmaceutical development and clinical care - from drug discovery to regulatory approaches that promote safety and innovation, from delivery of patient care services to evaluating the impact of care on patient outcomes and costs. With a history of “firsts” that includes the nation’s first Pharm.D. program (1952), first clinical clerkship program (1968), first Ph. D. in pharmaceutical economics (1990), and first professional doctorate in regulatory science (2008), the school holds an essential leadership role in the safe, efficient, and optimal use of medication therapy that can save lives and improve the human condition.
ABOUT OUR FELLOWSHIP PROGRAM

The USC-Allergan Pharmaceutical Industry Fellowship Program is designed to prepare postdoctoral scholars for rewarding careers in the pharmaceutical industry. Fellows work with mentors to participate in activities that enhance the skills required to excel in their field. Graduate-level coursework and seminars may be included in the program, in addition to hands-on project activities in Allergan teams.

Upon completion of the program, fellows will be prepared for the challenges of a career in the pharmaceutical industry. Past fellows have been placed into rewarding positions in industry, pharmacy practice, and research. USC Pharmacy’s fellowship programs adhere to the guidelines of the American Association of Colleges of Pharmacy and the American College of Clinical Pharmacy. All fellowships begin July 1 and end on June 30.

KEY HIGHLIGHTS
• Access to USC Regulatory Science courses and tuition remission, up to 4 units per semester towards a graduate certificate
• Networking with USC students and alumni
• Participating in professional leadership workshops
• Financial relocation assistance for out-of-state fellows
• Financial support to attend professional conferences and events
• Delivering lectures to pharmacy students
• Recruiting prospective graduate and professional students to the Fellowship Program

CURRENT FELLOWS

Allergan partners with the University of Southern California School of Pharmacy to give you a distinctive fellowship advantage— a unique environment that develops your skills and fast-tracks your career.

PICTURED FROM LEFT TO RIGHT:

Dilpreet Kaur, Pharm. D.
Medical Affairs
Global Regulatory Affairs Fellow
University of Southern California

Cynthia Nediyakalayil, Pharm. D., MBA
Medical Affairs
External Scientific Communications Fellow
Drake University

Ayesha Kapil, Pharm. D.
Global Regulatory Affairs Fellow
St. John’s University

Eric Samuels, Ph.D., M.S.
Small Molecule Product Development Fellow
University of California, Irvine

Ben Tsao, Pharm. D.
CNS Clinical Development Fellow
University of North Carolina

Trevor Todd, Ph.D.
Drug Delivery Sciences Fellow
University of Georgia

Bryon Lim, Pharm.D., M.S.
Global Regulatory Affairs Fellow
University of Southern California

Jennifer Do, Pharm. D., M.S.
Global Medical Communications Fellow
University of Southern California

Amber Lewis, Pharm. D., PSM
Ophthalmology Clinical Development Fellow
University of Southern California

William C. Gong, Pharm.D., FASHP, FCSHP
Director, Residency and Fellowship Programs
Associate Professor of Clinical Pharmacy
USC School of Pharmacy

Kevin Kerr, Pharm.D., M.S.
Fellowship Coordinator
Clinical Development

Dilpreet Kaur, Pharm. D.
Medical Affairs
Global Phase IV Fellow
University of Cincinnati

Cynthia Nediyakalayil, Pharm. D., MBA
Medical Affairs
External Scientific Communications Fellow
Drake University

Ayesha Kapil, Pharm. D.
Global Regulatory Affairs Fellow
St. John’s University

Eric Samuels, Ph.D., M.S.
Small Molecule Product Development Fellow
University of California, Irvine

Ben Tsao, Pharm. D.
CNS Clinical Development Fellow
University of North Carolina
This one-year Clinical Development fellowship provides an immersive introduction to clinical research in global drug development. As an active member of multiple clinical teams, the fellow will develop an understanding of the principles and challenges in developing novel therapeutics, while operating within GCP, ICH, and other agency guidelines. Under mentored guidance, the fellow will gain broad exposure to many interdisciplinary functional areas, while individualized objectives will tailor their involvement to projects of particular interest.

**OBJECTIVES**
- Explore the pharmacology of therapeutics and their clinical use
- Develop and optimize study documents (e.g., protocols, investigator brochures, procedure manuals, clinical development plans, informed consent forms, clinical study reports)
- Learn operational aspects of clinical trial design from startup, through execution, and closeout
- Participate in processes of ongoing data review, analysis, and reporting
- Understand the roles and responsibilities of clinical team members

**APPLICATION REQUIREMENTS**
- Pharm.D., Ph.D., or M.D. degree from an accredited university or equivalent
- Completion of pharmaceutical industry rotation, internship, or previous exposure to clinical research is desirable
- Excellent oral and written communication skills, ethics, professionalism, leadership, and an interest in the biopharmaceutical industry

The one-year Small Molecule Product Development fellowship focuses on the design and evaluation of novel oral, ophthalmic, and dermal formulations. As part of the training program, the fellow will be provided opportunities to gain first-hand experience with the different functional areas of the Small Molecule Product Development organization. This fellowship program is intended to give postdoctoral research training to support the fellow’s professional and career growth.

**OBJECTIVES**
- Design and evaluate novel oral, ophthalmic, and dermal formulations
- Evaluate the effect of excipients and processing parameters on quality and performance
- Investigate new formulation platform technologies
- Expand technical writing skills by developing, reviewing, and writing protocols and technical reports

**APPLICATION REQUIREMENTS**
- Ph.D. in pharmaceutical chemistry, pharmaceutical sciences, biomedical engineering, chemical engineering, materials science, polymer science and engineering, physical chemistry, or a similar field
- In-depth understanding of basic science principles, physical chemistry and material properties
- Excellent oral and written communication skills, ethics, professionalism, leadership, and an interest in the biopharmaceutical industry
Core Allergan therapeutic areas, such as Eye Care and Medical Aesthetics & Dermatology, are highly reliant on local delivery of drugs to enable the desired therapeutic effect. Allergan’s Drug Delivery Center of Excellence, part of Pharmaceutical Development, has established industry-leading drug delivery capabilities (e.g. bio-erodible sustained release) to support a diverse portfolio of small molecule and biologic drug products. The one-year Drug Delivery Sciences fellowship focuses on the design and development of new drug delivery systems and related capabilities including new technologies and novel adaptations of existing systems. This fellowship is intended to give postdoctoral researchers exposure to conducting R&D in the pharmaceutical industry, while advancing the fellow’s own scientific and professional growth. The fellow will also have the opportunity to collaborate with colleagues in other departments and disciplines within R&D.

**OBJECTIVES**

- Contribute to the advancement of Allergan’s science in one or more areas of sustained or targeted drug delivery.
- Collaborate with other scientists, both within and outside the department, to design and evaluate drug delivery systems and enable new products that address unmet medical need.

**APPLICATION REQUIREMENTS**

- Ph.D. in chemical engineering, biomedical engineering, materials science, polymer chemistry, colloidal chemistry, physical chemistry, pharmaceutical chemistry or a similar field.
- Subject matter expertise in areas such as an in-depth understanding of basic science principles, drug delivery, formulation, physical chemistry and material science properties. Knowledge and experience in cell biology or biochemistry is also desirable.
- Excellent oral and written communication skills, ethics, professionalism, and an interest in the biopharmaceutical industry.

**DRUG DELIVERY SCIENCES FELLOWSHIP**

TREVER TODD, PH.D.
Drug Delivery Sciences Fellow

The one-year Global Regulatory Affairs-Chemistry, Manufacturing, and Controls (GRA-CMC) Fellowship provides fellows with an overview of RA-CMC responsibilities including exposure to regulatory CMC strategy required to achieve health authority approvals. The fellow will have hands-on experience constructing global regulatory submission documents from the initial stages of document preparation to final submission. The fellow becomes a key component of the Core Team and shares the responsibility for facilitating timely submission and publishing of these documents to regulatory agencies across the globe. In addition, the fellow has the unique networking opportunity to manage several projects inside and outside of GRA as part of a comprehensive training program.

**OBJECTIVES**

- Assemble and manage regulatory documents in electronic Common Technical Document (eCTD) format that meet regulatory standards
- Review and discuss analytical method development, validation, and implementation with CMC team leaders and analytical scientists

**APPLICATION REQUIREMENTS**

- Pharm.D., Ph.D., or DRSc from an accredited university or equivalent
- Completion of M.S. in Regulatory Science, pharmacy industry-track courses and/or industry internship desirable
- Excellent oral and written communication skills, ethics, professionalism, leadership, and an interest in the biopharmaceutical industry are required for all fellowship positions

**REGULATORY AFFAIRS - CHEMISTRY, MANUFACTURING, AND CONTROLS FELLOWSHIP**

AYESHA KAPIL, PHARM.D.
Global Regulatory Affairs Fellow

BRYON LIM, PHARM.D., M.S.
Global Regulatory Affairs Fellow
USC-Allergan Fellowship Program 2018 - 2019

MEDICAL AFFAIRS FELLOWSHIP

The one-year Medical Affairs fellowship focuses on providing exposure to one of the following three pillars of functionality: Global Phase IV Trials, Global Medical Communications, or External Scientific Communications. During the interview process, the fellowship candidates will select a specialty they prefer within the three pillars. The fellow will then be able to develop first-hand experiences in management of post-marketing clinical research, medical information database operations, medical promotional review, or global strategic publication planning. This program will provide the fellows the necessary tools to become successful professionals within the pharmaceutical industry, as well as the opportunity to network with a lasting legacy of Allergan-alumni-fellows.

OBJECTIVES

• Establish and maintain collaborative relationships with Medical Directors, Medical Science Liaisons, Key Opinion Leaders (KOLs), Health Economics and Outcomes Research, Marketing, and Principle Investigators  
• Global Phase IV: Interact with all Allergan therapeutic areas and geographies to support new and ongoing post marketing clinical research, provide transparency to trial status to key stakeholders, and oversee financial standings for Phase IV, IIT, HEOR, and Epidemiology studies  
• Global Medical Communications: Develop scientifically-balanced global response letters to address unsolicited medical inquiries, provide medical review of promotional materials, and provide scientific support to Medical and Commercial initiatives through insights identified from medical inquiries  
• External Scientific Communications: Partner with internal and external global stakeholders to develop a research-based strategic publication plan to maximize the reach and impact of Allergan’s science through publications. Manage a cross-functional team and a vendor to execute the scientific communication plan for a therapeutic area. Lead research projects that help Allergan better understand the impact of scientific communications

APPLICATION REQUIREMENTS

• Pharm.D., M.D. or Ph.D. in an applicable study focuses from an accredited university  
• Attendance and interviewing at the 2018 ASHP Midyear meeting is highly recommended  
• Excellent oral and written communication skills, ethics, professionalism, leadership, and an interest in the biopharmaceutical industry are required for all fellowship positions

CLINICAL PHARMACOLOGY AND TRANSLATIONAL NONCLINICAL DEVELOPMENT FELLOWSHIP

This nonlaboratory-based one-year Clinical Pharmacology and Translational Nonclinical Development Fellowship focuses on developing skills of a modern translational scientist. The fellow will be provided opportunities to gain expertise in nonclinical and early clinical development through honing skills in areas such as nonclinical safety assessment, pharmacoepidemiology, clinical pharmacology, and pharmacoepidemiology. As part of the training, the fellow may engage in design and execution of nonclinical toxicology and pharmacokinetic studies, design and execution of phase 1 and/or phase 2a clinical studies, development of translational strategies, preparation of regulatory documents, as well as PK/PD and pop-PK modeling. The candidate will also participate in cross-functional team interactions spanning all of Allergan’s therapeutic areas. This advanced hands-on training program provides opportunities to engage in a broad range of activities within nonclinical and early clinical development and can be tailored towards specific needs and background of the candidate.

Objectives:

• Independently design and oversee execution of nonclinical toxicology and/or pharmacokinetic studies and/or clinical pharmacology studies  
• Analyze, interpret, and present data derived from nonclinical and clinical studies  
• Serve as a representative on nonclinical and clinical project teams to guide translational efforts  
• Prepare regulatory documents  
• Execute, interpret, and present results from PK/PD and/or pop-PK analyses  
• If applicable, present work at professional meetings and/or author a scientific publication

APPLICATION REQUIREMENTS

• Pharm.D. or Ph.D. from an accredited university or equivalent  
• Experience and coursework in pharmacology, pharmacoepidemiology, toxicology, or similar  
• Excellent oral and written communication skills, ethics, professionalism, leadership, and an interest in the biopharmaceutical industry
**FELLOWSHIP MENTORS**

- **Kevin Kerr, Pharm.D., M.S.**  
  Associate Director, Clinical Development - Ophthalmology  
  Clinical Development Fellowship Mentor

- **Lynn James, MPH**  
  Executive Director, Clinical Development - CNS  
  Clinical Developmental Fellowship Mentor

- **Elsa Lloyd, B.S.**  
  Associate Director, RA-CMC  
  Global Regulatory Affairs-CMC Fellowship Mentor

- **Jimmie Overton, Pharm.D.**  
  Associate Vice President, Global Medical Scientific Information  
  Medical Affairs Fellowship Mentor

- **Miles McLennan, M.B.A.**  
  Associate Vice President, CMO Trial Management  
  Medical Affairs Fellowship Mentor

- **Wil Glass, Ph.D.**  
  Associate Vice President, External Scientific Communications  
  Medical Affairs Fellowship Mentor

- **James Cunningham, Ph.D.**  
  Executive Director, Drug Delivery Sciences  
  Drug Delivery Sciences Fellowship Mentor

- **Jennifer Zhang, Ph.D.**  
  Associate Director, Small Molecule Product Development  
  Small Molecule Product Development Fellowship Mentor

- **Mayssa Attar, Ph.D.**  
  Vice President Non-Clinical and Translational Sciences  
  Clinical Pharmacology Fellowship Mentor

- **Elena Liang, Ph.D., M.S.**  
  Scientist, Small Molecule Product Development, Allergan PLC  
  Small Molecule Product Development Fellow 2017-2018

- **Trevor Todd, Ph.D.**  
  USC-Allergan Fellow, Allergan PLC  
  Drug Delivery Sciences Fellow 2017-2018

**RECENT PAST FELLOWS**

- **Anna Papinska, Ph.D., M.S.**  
  Clinical Pharmacology Scientist, Allergan PLC  
  Pharmacokinetics and Pharmacodynamics Fellow 2016-2017

- **Melissa Downey, Pharm. D., M.S.**  
  Medical Science Liaison, Allergan PLC  
  Medical Affairs, Medical Communications Fellow 2017-2018

- **Eric Wager, Pharm. D.**  
  Regulatory Affairs CMC Specialist, Halozyme Therapeutics  
  Global Regulatory Affairs Fellow 2016-2017

- **Brittany Jordan, Pharm. D.**  
  Manager, External Scientific Communications-Publications, Allergan PLC  
  Medical Affairs, External Scientific Communications Fellow 2017-2018

- **Hyona (Heidi) Chung, Pharm. D.**  
  Medical Science Liaison of Gastroenterology, Allergan PLC  
  Medical Affairs, Global Phase IV Fellow 2016-2017

- **Palak Prasad, Pharm. D.**  
  Senior manager, Medical Communications, Allergan PLC  
  Medical Affairs, Global/Phase IV Fellow 2017-2018

- **Nicholas Frazier, Ph.D., M.S.**  
  R&D Engineer, Applied Biosensors  
  Drug Delivery Sciences Fellow 2016-2017

- **Elena Liang, Ph.D., M.S.**  
  Scientist, Small Molecule Product Development, Allergan PLC  
  Small Molecule Product Development Fellow 2017-2018

- **Quoc Ho, Pharm. D.**  
  Senior Manager, Clinical Development-Ophthalmology, Allergan PLC  
  Clinical Development Fellow 2016-2017

- **Phil Armendi, Pharm. D.**  
  Regulatory Affairs Senior Analyst, Allergan PLC  
  Global Regulatory Affairs Fellow 2016-2017

- **Neda Nguyen, Pharm. D.**  
  Drug Information Associate, Medical Communications Dohmen Life Science Services  
  Global Regulatory Affairs Fellow 2017-2018

- **Philip Armendi, Pharm. D.**  
  Regulatory Affairs Senior Analyst, Allergan PLC  
  Global Regulatory Affairs Fellow 2016-2017

- **Grigor Abelian, Pharm. D.**  
  Research Investigator, Clinical Pharmacology, Bristol-Myers Squibb  
  Clinical Pharmacology Fellowship 2017-2018

- **Jeff Penzner, Pharm. D.**  
  Clinical Development Manager, Allergan PLC  
  Clinical Development Fellow 2015-2016

- **Mia Mackowski, Pharm. D., M.S.**  
  Global Early Clinical Development Manager, Amgen  
  Clinical Development Fellow 2017-2018

- **Ned Nguyen, Pharm. D.**  
  Drug Information Associate, Medical Communications Dohmen Life Science Services  
  Global Regulatory Affairs Fellow 2017-2018
PAST FELLOWS

SCHOOLS
- Albany College of Pharmacy
- Long Island University
- MCPHS
- Purdue University
- Touro College California
- Rutgers University
- UC Berkeley
- UC Irvine
- UCLA
- UCSF
- UC San Diego
- USC
- University of Colorado
- University of Illinois, Chicago
- University of Iowa
- University of Maryland, Baltimore
- University of Oklahoma
- University of Washington
- Touro College New York
- University of South Carolina
- University of Utah
- University of the Sciences, Philadelphia
- University of Pittsburgh
- Temple University
- University of Georgia
- Virginia Commonwealth University

GRADUATING DEGREES 2018-2019

- 22% Ph.D.
- 78% Pharm.D.

DISTRIBUTION OF FELLOWS BY DEPARTMENT 2018-2019

- 33% Medical Affairs
- 22% Global Regulatory Affairs-CMC
- 22% Clinical Development
- 11% Small Molecule Product Development
- 11% Drug Delivery Sciences
APPLICATION PROCESS

The USC-Allergan Pharmaceutical Industry Fellowship program provides exceptional preparation and education for postdoctoral graduates entering the pharmaceutical industry. Entry into the program is competitive and applicants are encouraged to review all admission requirements and deadlines prior to beginning the application process.

The University of Southern California is an Equal Opportunity/Affirmative Action employer. USC-Allergan Fellows are classified as students, and are affiliated with Allergan, plc for the purpose of training and career development.

DEADLINE
Candidates are required to complete the online application and submit required materials by December 10th.

REQUIREMENTS
To be admitted to the USC-Allergan Pharmaceutical Industry Fellowship program, you must have obtained:
• A Pharm.D., Ph.D., M.D. or equivalent doctorate degree from an accredited college or university within five years of initial appointment.

ADMISSION
To apply, go to http://web-app.usc.edu/web/pharmacy/application where you will be asked to provide:
• The email addresses of three references
• Curriculum Vitae (CV)
• Letter of intent
• Official pharmacy school, medical school, or graduate school transcript

CONTACT INFORMATION
William C. Gong, Pharm.D., FASHP, FCShP
Director, Residency and Fellowship Programs
University of Southern California
School of Pharmacy
1985 Zonal Avenue
Los Angeles, California 90089-9121

Telephone: (323) 442-2625
Email: wgong@usc.edu | Residentfellow@usc.edu

Mail official transcripts to:
Pharmacy Residency & Fellowship Programs,
1985 Zonal Avenue, PSC B-15 Los Angeles, CA 90033

Additional information available at:
http://pharmacyschool.usc.edu/programs/fellowship/