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

For specific questions about USC-Allergan Pharmaceutical Industry Fellowships, contact:

William C. Gong, Pharm.D., FASHP, FCSHP
Director, Residency and Fellowship Training
Associate Professor of Clinical Pharmacy
University of Southern California
School of Pharmacy
1985 Zonal Avenue
Los Angeles, California 90089-9121
Telephone: (323) 442-2625
Email: wgong@usc.edu, Res-Fellow@pharmacy.usc.edu
FELLOWSHIP ACTIVITIES AND COMMUNITY OUTREACH
Giving back to Orange County...

IN ADDITION TO THE FELLOWSHIP CURRICULUM, USC-ALLERGAN FELLOWS ENHANCE THEIR EXPERIENCES BY COORDINATING NUMEROUS GROUP EVENTS

PHILANTHROPIC EVENTS
- Monthly food drive donations
- Beach cleanups
- Mentoring programs
- Dress for Success

ACTIVITIES
- Intramural basketball and softball games on Allergan campus
- BBQ and dinner nights
- Beach bonfires
- Griffith Observatory hikes
- Laguna Beach Hike to the Top of the World
- Local food and arts festivals
- Holiday celebrations
- Group fitness classes on Allergan campus
- USC Football Games

Reach your life’s potential

Expanding the promise of medicine
PHARMACOKINETICS AND PHARMACODYNAMICS FELLOWSHIP

The one-year Pharmacokinetics and Pharmacodynamics fellowship will focus on the translational sciences efforts within the department. The fellow will be provided with opportunities to analyze and translate nonclinical and clinical data to guide dose regimen selection. As part of the training program, the fellow will also review existing nonclinical and clinical data to guide nonclinical model development in an effort to better predict human response. This fellowship is intended to enhance the postdoctoral research training of the applicant through providing hands-on training in the application of pharmacokinetic and drug disposition principles and modeling techniques to better characterize the PK/PD relationship understanding for Allergan programs.

LEARNING ACTIVITIES
• Gain an appreciation of the role and contributions of a Pharmacokinetics and Pharmacodynamics scientist in an industry setting
• Integration of data from multiple sources to build a comprehensive PK, PK/PD and toxicokinetic database in relation to Allergan candidate compounds
• Hands-on training and experience with modeling and graphical software
• Creating and delivering presentations to guide project team discussions with respect to dose selection
• Opportunities to learn, plan and participate in departmental meetings and seminars

APPLICATION REQUIREMENTS
• Degree – Pharm.D. or Ph.D. from an accredited university or equivalent
• Experience and coursework in pharmacokinetics
• Good oral and written communication skills, ethics, professionalism, and an interest in biopharmaceutical industry are required for all fellowship positions

PAST FELLOWS HAVE ADVANCED INTO REWARDING CAREERS

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THE USC EXPERIENCE

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, expands your potential, and optimizes your career.

- Founded in 1905, the University of Southern California School of Pharmacy
- Pioneered the doctor of pharmacy degree
- Launched the first doctorate in regulatory science
- Remains an innovator in pharmacy education, research and patient care

UNIVERSITY OF SOUTHERN CALIFORNIA SCHOOL OF PHARMACY

“Our fellowship options provide specialization while still exposing fellows to the full breadth of Allergan. This is a partnership in education that provides a unique post-doctoral experience in industry complemented by scholarly pursuit. Our fellows go on to do great work.”

MAYSSA ATTAR, PH.D.
SENIOR DIRECTOR
PHARMACOKINETICS AND PHARMACODYNAMICS
MENTOR

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OPPORTUNITIES THROUGH USC AND THE PHARMACEUTICAL INDUSTRY FELLOWSHIP PROGRAM

• Access to USC Regulatory Science courses and tuition remission for 4 units per semester
• Networking opportunities with USC students and alumni
• Participation in professional leadership workshops
• Financial support to attend professional conferences and events

RESPONSIBILITIES OF A USC FELLOW

• Attend workshops and courses offered through the USC Regulatory Science Program to further professional development
• Recruit prospective graduate and professional students to the Fellowship Program

Additional information about USC School of Pharmacy is available at http://pharmacyschool.usc.edu
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**ACTIVITIES OF DRUG DELIVERY SCIENCES**
- Investigate and develop novel drug delivery technology to improve patient therapy
- Design controlled drug delivery systems to overcome biological barriers
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**PHARMACEUTICAL DEVELOPMENT FELLOWSHIP**

**ACTIVITIES OF PHARMACEUTICAL DEVELOPMENT**
- Design and evaluate novel ophthalmic and dermal formulations
- Evaluate the effect of excipients and processing parameters on quality and performance
- Investigate new formulation platform technologies
- Opportunities to attend applicable seminars as well as technical and team meetings

**APPLICATION REQUIREMENTS**
- Ph.D. in chemical engineering, biomedical engineering, materials sciences, polymer chemistry, colloidal chemistry, physical chemistry, pharmaceutical chemistry or a similar field
- The essential components of this position are an in-depth understanding of basic science principles, physical chemistry and material properties
- Knowledge and experience in cell biology or biochemistry is advantageous
- Good oral and written communication skills, ethics, professionalism, and an interest in biopharmaceutical industry are required for all fellowship positions

**WHEN YOU FINISH YOUR USC- ALLERGAN PHARMACEUTICAL INDUSTRY FELLOWSHIP, YOU’LL BE PREPARED FOR AN AMAZING CAREER**
- You’ll know how to do business around the world
- You’ll launch your career on a fast, accelerated course
- You’ll know how to do the work that gets the job done – interacting with all levels from the corner office to the manufacturing floor
- You’ll have a network at Allergan and the USC Trojan family

**PREVIOUS FELLOWSHIP OPPORTUNITIES**
- Global Pharmaceutical Sciences
- Clinical Development, Neurology
- Clinical Development, Retina
- Medical Affairs
  - Medical Scientific Affairs
  - Neuroscience Strategy Development and Data Generation
- Publications Planning and Medical Writing
- Drug Delivery Sciences
- Pharmaceutical Development

Fellowship opportunities may vary from year to year

**ALLERGAN, INC.**

Discover breakthrough therapeutic and prescription treatments. Improve patient outcomes in medical and aesthetic specialties. Share ideas in a culture that embraces fresh thinking. Make an impact at a company that invests in innovation.

Eric Forsen, Pharm.D., Ph.D.
Manager, Drug Delivery Sciences
Mentor

Hiromi Arai, Ph.D.
University of California, Irvine
Drug Delivery Sciences Fellow 2014-2015

Anu Gore, Ph.D.
Principal Scientist, Small Molecule Product Development
Mentor

Martha K. Pastuszka, Ph.D.
University of Southern California
Pharmaceutical Development Fellow 2014-2015

Allergan is a global technology-driven multi-specialty health care company focused on developing and commercializing innovative pharmaceuticals, biologics and medical devices that enable people to live life to its greatest potential — to see more clearly, move more freely, and express themselves more fully.

In making this commitment, Allergan works to develop an unparalleled level of insight into patients’ wants and needs and into the priorities and concerns of the medical specialists who treat them. Allergan combines this strategic focus with a diversified approach that enables it to follow its research and development into new specialty areas where unmet medical needs are significant. In partnership with the medical community, the company strives for scientific excellence and rigor to deliver best-in-class treatments and a robust pipeline for continual innovation.

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ACTIVITIES OF GLOBAL PHARMACEUTICAL SCIENCES

• Facilitate timely submission and publishing of global regulatory submission documents to regulatory agencies across the globe, from the initial stages of document preparation to final submission
• Assembly and management of regulatory documents in eCTD format that meet regulatory standards
• Review and discussion of analytical method development, validation and implementation with CMC team leaders and analytical scientists

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 pharmaceutical industry is desirable
• Good oral and written communication skills, ethics, professionalism, and an interest in biopharmaceutical industry are required for all fellowship positions

PAST YEARS FELLOWS HAVE HAD OPPORTUNITIES TO WORK IN

• Phase 4 studies
• Publications
• Medical Information
• Medical Devices

APPLICATION REQUIREMENTS

• Pharm.D., Ph.D., or DRSc from an accredited university or equivalent
• Completion of MS in regulatory science, pharmacy industry-track courses and/or industry internship desirable
• Good oral and written communication skills, ethics, professionalism, and an interest in biopharmaceutical industry are required for all fellowship positions
The one-year Medical Affairs fellowship provides the opportunity to gain experience in Neurosciences Strategy Development and Data Generation, Medical Scientific Affairs, or Publications and Medical Writing. All of these provide the opportunity to gain first-hand experience with the different functional areas of the Medical Affairs organization. The Medical Affairs fellow will gain exposure to medical information, post-marketing clinical trials, medical science liaisons, continuing medical education, and publication planning. The fellow will develop a thorough understanding of the operations of a medical affairs department and be conversant with the content development and dissemination of medical information.

**ACTIVITIES OF MEDICAL AFFAIRS**
- Partner with internal and external global stakeholders to strategically plan and disseminate Allergan’s key scientific data through high quality and medically relevant publications
- Design, implement, and monitor Phase IV studies of Allergan products
- Support field-based MSL teams through providing information to key thought leaders
- Review written documents for accuracy and adherence to regulatory guidelines

**MEDICAL AFFAIRS FELLOWSHIP**

**JOHN MALTMAN, PH.D.**
DIRECTOR, MEDICAL AFFAIRS, GLOBAL NEUROTOXIN SCIENCE
MENTOR

**WIL GLASS, PH.D.**
SENIOR DIRECTOR, PUBLICATIONS, GLOBAL MEDICAL AFFAIRS
MENTOR

**MOLLIE CARTER, M.D.**
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This one-year fellowship provides an understanding of challenges in developing new drug products and the applications of clinical development principals in the expensive, complex, but rewarding journey of drug development. Under mentored guidance, fellows develop a thorough understanding of therapeutic areas and devise appropriate therapeutic strategies, paying special attention to trial design and interaction with investigators, as well as ethical and legal issues.

With an individualized plan based on input from the fellow, the trainee participates as an integral member of the clinical team and reports to senior management in their respective therapeutic area. The fellow will also develop an understanding of good clinical practices (GCP), ICH guidelines, and global regulations governing clinical research with investigational products.

**ACTIVITIES OF CLINICAL DEVELOPMENT**
- Design and conduct clinical trials across various phases of study
- Develop and review regulatory and clinical study documents
- Analyze and report clinical trial data
- Provide clinical support to Clinical Operations teams and multidisciplinary sub-teams
- Gain a solid understanding of how other functional areas (e.g. regulatory affairs, biostatistics, CMC, pre-clinical) are integrated to achieve a successful clinical trial

Previous fellowships have been offered in the Neurology and Retina therapeutic areas

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  Health Science Associate, Allergan, Inc.
  Medical Affairs Fellow 2011-2012

- Kevin Kerr, Pharm.D., M.S.
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FELLOWSHIP ACTIVITIES AND COMMUNITY OUTREACH

Giving back to Orange County...

IN ADDITION TO THE FELLOWSHIP CURRICULUM, USC-ALLERGAN FELLOWS ENHANCE THEIR EXPERIENCES BY COORDINATING NUMEROUS GROUP EVENTS

PHILANTHROPIC EVENTS
- Monthly food drive donations
- Beach cleanups
- Mentoring programs
- Dress for Success

ACTIVITIES
- Intramural basketball and softball games on Allergan campus
- BBQ and dinner nights
- Beach bonfires
- Griffith Observatory hikes
- Laguna Beach Hike to the Top of the World
- Local food and arts festivals
- Holiday celebrations
- Group fitness classes on Allergan campus
- USC Football Games

Reach your life’s potential

Expanding the promise of medicine
Additional information and application available at:
http://pharmacyschool.usc.edu/programs/fellowship/

For specific questions about USC-Allergan Pharmaceutical Industry Fellowships, contact:

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