FELLOWSHIP IN INDUSTRY PROGRAM
Welcome Message from the Associate Dean of Professional Programs

Dear Prospective Fellow,

We are so pleased that you are considering the University of the Pacific's Fellowship in Industry Program (FIP) in partnership with Genentech, Inc. The genesis of this program is fueled by the aspiration to expand the biopharmaceutical industry fellowship opportunities in partnership with academia on the West Coast.

At University of the Pacific, the first charter university in California, we value individualized training and focus on leadership development, which are exemplified by our partnership with Genentech. For more than 60 years, the University has been training health care professionals who are problem-solvers, innovators and leaders. Our faculty dives deeper, using research to challenge the status quo of health care and education.

As a FIP fellow, you will be fully immersed in the Clinical Scientist or Clinical Pharmacologist role to support innovative drug development at Genentech, the founder of the biotechnology industry. In addition, you will have the opportunity to work alongside the faculty and preceptors at the University, and Travis Air Force Base where you will engage in research collaboration, grant and manuscript development, teaching, student and resident mentoring and other professional development.

I highly encourage you to contact our FIP Director, Dr. Sachin Shah and the exceptional team of mentors so you can appreciate how deeply committed we are to your future success.

Best Regards,

Allen Shek, PharmD
Professor and Associate Dean of Professional Programs
University of the Pacific
Fellowship in Industry Program

University of the Pacific’s Fellowship in Industry Program (FIP) was founded in 2017 with the goal of providing exceptional biopharmaceutical industry training for PharmD graduates. We strive to deepen domain specific technical skills while sharpening soft skills for all fellows. The fellows will spend 90 percent of their time at Genentech, Genentech Research and Early Development (gRED). The balance of time will be spent on professional development activities with the University.

About University of the Pacific

University of the Pacific is a nationally ranked university with a long tradition of dedicated teaching, small class sizes, practical experience and vibrant residential life. The breathtaking main campus in Stockton, California is home to seven schools and colleges, with more than 80 majors and programs of study. The Thomas J. Long School of Pharmacy and Health Sciences opened in 1955 and has a long-standing record for producing high-quality pharmacists with the option for dual degree programs (PharmD/PhD, MBA or MS) and post-doctoral academic fellowships. Over the last seven years, average annual faculty research grants in the School totaled more than one million dollars with extensive participation in NIH and NSF grants and more than 95 percent of faculty publishing. The School touts a unique decentralized Advanced Pharmacy Practice Experience (APPE) model with thirteen regions having full-time faculty members bolstering teaching, scholarship and service.

Learn more at www.pacific.edu

**MISSION** To prepare students for lifelong success in health careers by providing an excellent, student-centered learning environment.
About Genentech

Genentech was founded in 1976, with a goal to develop a new generation of therapeutics created from genetically engineered copies of naturally occurring molecules. Today Genentech continues to use genetic engineering along with other advanced techniques to develop medicines that address major unmet medical needs for patients worldwide.

In March 2009, Genentech became a member of the Roche Group. As part of their merger agreement, Roche and Genentech combined their pharmaceutical operations in the United States. Genentech’s South San Francisco campus now serves as the headquarters for Roche pharmaceutical operations in the United States.

The three Roche values — Integrity, Courage, and Passion — are core to how we want to behave, as individuals and collectively as an organization.

- Integrity means we are consistently open, honest, ethical and genuine.
- Courage means we are entrepreneurial and thus take risks, reach beyond boundaries and experiment.
- Passion means we use our drive and commitment to energize, engage and inspire others.

These values define fundamental attributes for guiding decisions and actions leading to increased innovation and business performance.
Every Day, Our Scientists and Doctors Around the World Come to Work to Tackle Some of the World’s Most Devastating Diseases.

We are testing new medicines with the hope of helping people with serious diseases live longer and better lives.

We are committed to personalized healthcare and getting the right medicine to the right patient.

Every medicine we research has a diagnostic strategy exploring tests to identify who may be appropriate for treatment.
Message from Executive Sponsor of Genentech Fellowship | Clinical Science – Non-Oncology (OMNI) Early Clinical Development

Dear Prospective Fellow:

Genentech is excited to be a part of the University of the Pacific’s Fellowship in Industry Program (FIP) for Doctor of Pharmacy graduates. We know that you’ve worked hard on your career and, as you look forward, we know that you’ll continue to be thoughtful regarding your future professional development. Toward that end, we are thrilled to offer you a unique opportunity to grow in an environment that has produced some of the best clinical trialists in the pharmaceutical industry, who in turn have produced some of the most groundbreaking medicines in the world.

As the founder of the biotechnology industry, Genentech, a member of the Roche Group since 2009, has been delivering on the promise of biotechnology for more than 40 years. Our early clinical development group based in South San Francisco offers an incredible range of clinical research training opportunities in immunology, neurology, ophthalmology, infectious diseases and other specialty areas. Uniting all of these therapeutic areas is our focus on patients, science and our people. We have a culture that supports doing the cutting-edge science that leads to major breakthroughs and cures. In this environment, we welcome enthusiastic and innovative doctor of pharmacy graduates who strive to transform knowledge into innovative new medicines. Because we recognize the unique backgrounds and skills that each new fellow brings to the program, our group’s goal is to give you the support, training and mentorship that will assure your success. We look to train individuals so that we can all make a difference together.

On behalf of Genentech, thank you for considering this program and I invite you to contact us if you have any questions.

Best Regards,

Jorge A. Tavel, MD
Lead Group Medical Director
Genentech Research and Early Development
Genentech, A Member of the Roche Group
Genentech Fellowship | Clinical Science – Non-Oncology (OMNI) Early Clinical Development

gRED’s OMNI Early Clinical Development organization is responsible for developing and executing early development clinical strategies in healthy volunteers and patients to provide data for gRED non-oncology new molecular entities with respect to safety, tolerability, efficacy, pharmacokinetics, pharmacodynamics and the utility of biomarkers. This two-year Clinical Science fellowship provides in-depth exposure to Early Clinical Development and understanding the basic principles of Clinical Research. The fellow will function as a Clinical Scientist and will support Medical Directors/senior-level Clinical Scientists on a diverse set of clinical development activities.

Activities at Genentech

The fellow will function as a clinical scientist and will support medical directors/senior level clinical scientists on the following activities:

- Serve as a clinical science representative on cross-functional sub-teams (i.e. protocol execution, clinical, biomarkers, pharmacokinetics)
- Create, review and present clinical slides for internal (i.e. Genentech/Roche) and external meetings (e.g. Investigator meetings, scientific congresses, advisory boards, site visits, site staff training)
- Develop understanding of Good Clinical Practice (GCP), International Conference on Harmonization of Technical Requirements for Registration of Pharmaceuticals for Human Use (ICH), FDA, EMA, NICE and other relevant guidelines and regulations
- Author and review of clinical documents (i.e. clinical trial protocols, informed consents, investigator brochures, clinical study reports)
- Respond to inquiries from health authorities (e.g. FDA, EMA) and ethics committees
- Partner with data management team on the development of case report forms
- Serve as a primary point of contact for study inquiries
- Contribute to ongoing review of clinical trial data
- Draft abstracts, posters, manuscripts for scientific meetings
- Develop understanding of Phase I-II drug development

Mentors

Jeremy Lim, PharmD
Clinical Scientist
Genentech Research and Early Development
Associate Director, Fellowship in Industry Program

Chin Wong, PharmD
Clinical Scientist
Genentech Research and Early Development
Message from Executive Sponsor of Genentech Fellowship | Clinical Science – Oncology Early Clinical Development

Dear Prospective Fellow:

Thank you for your interest in Genentech Early Clinical Development – Oncology in partnership with the University of Pacific Fellowship in Industry Program (FIP). We know that a fellowship is an important commitment in your career development. Our team is excited to offer you the opportunity to extend your knowledge as you contribute to the development of novel cancer therapeutics working alongside experienced clinicians and scientists who are passionate about applying innovative science to clinical research.

Genentech is a leader in developing therapies that shape the care of patients with cancer. Our pipeline reflects our commitment to innovative science and personalized cancer therapies, and includes development programs focused on mutant specific inhibitors, cancer immunotherapy, and personalized cancer vaccines. We believe that our close collaboration with the scientists who have discovered these new drugs and our daily interactions with the oncologists who are conducting clinical trials has been essential to our success.

PharmD graduates have the robust clinical and scientific training that is valuable in clinical research. Our training program will provide you the opportunity to learn experientially in a dynamic team setting. The fellow will be matched with a mentor who will offer personalized training on the drug development process and will have access to a wide variety of education programs within the organization. We seek a fellow who shares our passion for applying cutting-edge science to clinical research with the goal to improve the lives of patients with cancer.

On behalf of the Early Clinical Development-Oncology group at Genentech, we wish you the best exploring your fellowship opportunities, and hope that you will consider joining our team. Please contact us if you have any additional questions.

Best Regards,

Stuart Lutzker, MD, PhD
VP Oncology Early Clinical Development
Genentech Research and Early Development,
Genentech, A Member of the Roche Group

Jennifer Lauchle, MD
Lead Group Medical Director
Genentech Research and Early Development
Genentech, A Member of the Roche Group
Genentech Fellowship | Clinical Science – Oncology Early Clinical Development

Genentech’s Oncology Early Clinical Development mission is to provide the clinical leadership and skills to successfully develop novel cancer therapies and the means by which to identify the patients who benefit from them. The organization is responsible for developing strategies for and executing on First-in-Human, Phase 1 and Proof-of-Concept oncology clinical trials to assess the safety profile, tolerability, efficacy, pharmacokinetics, and pharmacodynamics of new molecular entities. This two-year Clinical Science fellowship provides in-depth exposure to Oncology Early Clinical Development. In the role of Clinical Scientist, the fellow will gain experience in the basic principles of clinical oncology research while collaborating with Medical Directors and senior-level Clinical Scientists on a diverse set of clinical development activities.

Activities at Genentech

- Serve as a clinical science representative on cross-functional sub-teams (i.e. protocol execution, clinical, biomarkers, pharmacokinetics)
- Create and present clinical slides for internal (i.e. Genentech/Roche) and external meetings (e.g. Investigator meetings, scientific congresses, site visits and/or training, site staff training or updates)
- Develop understanding of Good Clinical Practice (GCP), International Conference on Harmonization of Technical Requirements for Registration of Pharmaceuticals for Human Use (ICH), FDA, EMA, NICE and other relevant guidelines and regulations
- Author clinical documents that support regulatory requirements (i.e. clinical trial protocols, clarifications and amendments, informed consent forms, investigator brochures, clinical study reports)
- Respond to inquiries from health authorities (e.g. FDA, EMA) and study site ethics committees
- Partner with data management team to assist with the development of case report forms
- Serve as a first point of contact for study inquiries, as appropriate
- Contribute to ongoing review of the integrity of clinical trial data including collaborating with Data Visualization to effectively display data
- Draft abstracts, posters, manuscripts for scientific meetings
- Develop understanding of Phase I-II drug development

Mentors

Renee Commerford, PhD
Sr. Clinical Scientist
Genentech Research and Early Development

Karen Miller, PhD
Sr. Clinical Scientist
Genentech Research and Early Development
Message from Executive Sponsor of Genentech Fellowship | Clinical Pharmacology

Dear Prospective Fellow,

Genentech’s Clinical Pharmacology department is excited to be a part of the University of the Pacific’s fellowship program for Doctor of Pharmacy graduates. The comprehensive training of the Doctor of Pharmacy graduate in clinical therapeutics, applied pharmacokinetics, direct patient care, and translational science provides a unique opportunity to develop and contribute as Clinical Pharmacologists in the drug development industry.

Our UOP-Genentech Clinical Pharmacology fellowship program aims to train graduates who have particular interest in Clinical Pharmacology in the areas of pharmacokinetics, pharmacodynamics, drug metabolism, quantitative pharmacology (including various types of PK/PD data modeling and “what-if” simulation approaches), as well as applying new health/IT technologies and advanced analytic approaches to support drug development. We provide the unique opportunity for trainees to work under the supervision of Senior Clinical Pharmacologists and alongside other cross-functional colleagues across Genentech as they complete this 2-year fellowship.

Our Clinical Pharmacology group based in South San Francisco offers an incredible range of training opportunities in many therapeutic areas including Oncology, Immunology, Neurology, Ophthalmology and Infectious Diseases. Our Clinical Pharmacologists are also well known among their scientific peers for their rigorous, innovative and cutting-edge approaches and we encourage them to publish and present at scientific meetings. We pride ourselves for having a culture that focuses on patients, science and our people and we have a “work hard, play hard” philosophy.

On behalf of Genentech, thank you for considering this program and I invite you to contact us if you have any questions.

Best Regards,

Amita Joshi, PhD
Vice President and Global Head of Clinical Pharmacology
Development Sciences
Genentech Research and Early Development
Genentech, A Member of the Roche Group
Genentech Fellowship | Clinical Pharmacology

The Genentech Clinical Pharmacology Fellowship program builds on the synergy between the fellow’s comprehensive Doctor of Pharmacy training and Genentech’s innovation in drug development to prepare the individual for a career in the biotechnology/pharmaceutical industry. The fellow will be part of the gRED Clinical Pharmacology Department, which is responsible for applying the principles of quantitative pharmacology to enable selection of a safe and effective dose, route and regimen for small molecules and biologics. The fellow will gain drug development experience at Genentech by completing research projects in clinical pharmacology and/or modeling and simulation and collaborating with scientists across disciplines within Genentech and Roche. These experiences will potentially lead to publications and presentations at scientific conferences and give the fellow exposure to career opportunities in the biotechnology/pharmaceutical industry.

Activities at Genentech

The Fellow will function as a Clinical Pharmacologist and will support research and development projects, which may include the following activities:

- With guidance from the Genentech and University of the Pacific mentors, design and implement a clinical pharmacology and/or modeling and simulation research project(s).
- Present the results of the research project(s) at Genentech, University of the Pacific, a local and/or national scientific meeting and/or publish them in a peer-reviewed journal.
- Serve as a Clinical Pharmacology lead for a healthy volunteer study for a small and/or large molecule project (e.g., food effect, drug-drug interaction, formulation bridging, bioequivalence)
- Serve as a Clinical Pharmacology lead on cross-functional project sub-teams (including clinicians, pharmacologists, biomarker experts, biostatisticians, regulatory experts), facilitating discussions of clinical pharmacology-related issues
- Develop clinical pharmacology plans for small and/or large molecule projects and obtain buy-in from the project team with support from their mentor
- Author clinical pharmacology sections of documents (e.g., clinical trial protocols, investigator brochures, clinical study reports, health authority pre-meeting packages, NDAs, BLAs)
- Develop hands-on modeling and simulation skills (e.g., noncompartmental, compartmental, PK/PD, and population PK modeling)
- Develop an understanding of ICH, FDA, EMA, PMDA and other relevant Clinical Pharmacology guidances and apply them in their work
- Develop an understanding of Phase I-IV drug development in different therapeutic areas

Mentors

Sandhya Girish, PhD
Director and Senior Scientist, Global Head of Oncology, Genentech Clinical Pharmacology

Jin Yan Jin, PhD
Director and Principal Scientist, Global Head of Modeling and Simulation, Genentech Clinical Pharmacology

Wendy Putnam, PhD
Group Leader and Principal Scientist, Genentech Clinical Pharmacology

Whitney Kirschbrown, PharmD, PhD
Scientist, Genentech Clinical Pharmacology
Activities at the Thomas J. Long School of Pharmacy and Health Sciences

The fellow will have clinical faculty status at University of the Pacific, Thomas J. Long School of Pharmacy and Health Sciences in Stockton, California.

They will be engaged in:

• Research collaboration with faculty
• Professional development meetings
• Grants and manuscript development
• Advising Pacific’s Industry Pharmacists Organization (IPhO) student chapter
• Teaching activities (e.g. industry elective, research elective)

Mentors

Sachin A. Shah, PharmD
Professor of Pharmacy Practice
Regional Coordinator – Travis AFB
Director, Fellowship in Industry Program

Allen Shek, PharmD
Professor of Pharmacy Practice
Associate Dean of Professional Programs

Nancy N. Nguyen, PharmD, BCPS, AAHIVP, FCSHP
Clinical Professor of Pharmacy Practice
Regional Coordinator – Palo Alto

Kate M. O’Dell, PharmD, BCPS, FCSHP
Professor of Pharmacy Practice
Director of Experiential Programs
Vice Chair of Pharmacy Practice
Activities at Travis Air Force Base

The fellow will have volunteer status at Travis Air Force Base, David Grant USAF Medical Center, Department of Pharmacy.

They will be engaged in:

- Guest lecturing
- Clinical trial support
- IRB and IACUC meetings
- Student and resident mentorship
- Projects relevant to United States Air Force

Mentors

Tracey J. McGaughey, PharmD, BCPS
Adjunct Professor of Pharmacy Practice
Director of Pharmacy Operations
Joint Base Andrews, National Capital Region

Sachin A. Shah, PharmD
Professor of Pharmacy Practice
Regional Coordinator – Travis AFB
Director, Fellowship in Industry Program
Perspective from Fellows

“Immediately from the beginning of my fellowship, I have been surrounded by preceptors and colleagues who are deeply committed to my professional training. At Genentech, I am able to thrive in an environment that encourages taking on personal responsibility within the team and asking curious questions. Through University of the Pacific, I enjoy a wide breadth of academic activities between the precepting sites of Travis Air Force Base, VA Palo Alto, and the Stockton campus. It has been only a few months since I started this fellowship and I have gained much exposure to clinical science and identified more areas for personal growth.”

Nicole Kim, PharmD
2018-2020 Fellow in Clinical Science – Non-Oncology

“FIP gave me the tools to excel in industry because my experiences in the program taught me the potential to first-handly impact and influence all levels of the healthcare hierarchy and landscape. This well-rounded program fosters flexibility and creativity through multiple customizable channels of learning, from innovative clinical projects and teaching opportunities. Furthermore, the leadership, compassion, and dedication of my preceptors, who were highly accessible and approachable, to my professional growth and career trajectory are unparalleled.”

Kimberly Maiton, PharmD
2017-2018 Fellow in Health Innovation, Outcomes and Communication
Current: Global Medical Communications Manager, Oncology, Amgen
Fellowship Eligibility Requirements

A candidate must:

- Be a permanent resident or citizen of the United States
- have earned a PharmD from an ACPE accredited college of pharmacy before the start of the fellowship term

Application Process

Candidates must submit all the following application materials by the deadline listed on the website:

- Letter of intent
- Updated curriculum vitae (CV)
- Three (3) letters of recommendation emailed directly from letter writer to FIP director
- One professional writing sample that demonstrates medical writing ability
- Unofficial pharmacy school transcript emailed to FIP director
- Official pharmacy school transcript mailed to:
  Sachin A. Shah, PharmD
  Thomas J. Long School of Pharmacy and Health Sciences
  3601 Pacific Ave
  Stockton, CA 95211

ASHP Midyear Clinical Meeting Personnel Placement Service

Participation in the Personnel Placement Service (PPS) at the ASHP Midyear Clinical Meeting is strongly encouraged, but not required. Request an interview and submit the following through the PPS portal or by e-mail to Sachin A. Shah, PharmD at pharmfip@pacific.edu.

- Letter of intent
- Updated curriculum vitae (CV)

See application deadline at go.pacific.edu/pharmacyFIP