GlaxoSmithKline Postdoctoral Industry-Sponsored Fellowships
Introduction

GlaxoSmithKline (GSK) has a rich history of collaborations with a variety of leading academic institutions through sponsorship of joint fellowship programs. The GSK/University of North Carolina at Chapel Hill (UNC) fellowship program is two years in length which enables the fellows to develop scientific foundation in areas of interest and apply practical knowledge in the pharmaceutical industry. There is a strong emphasis on ensuring direct contribution to the advancement of the pharmaceutical sciences as related to the field of study.

Postdoctoral fellowships offered by GSK in collaboration with UNC include:

- US Medical Affairs (PharmD or PhD)
- Global Regulatory Affairs (PharmD, PhD, or MD)
- Pharmaceutical Outcomes Research (PharmD, PhD, or MD)
The UNC Eshelman School of Pharmacy is a nationally recognized leader in progressive pharmaceutical care practice, education, and research. It is currently ranked as the #1 pharmacy school in the nation by the US News and World Report.

The Eshelman School of Pharmacy is part of the University of North Carolina at Chapel Hill, a major research university with a large academic medical center. The School of Pharmacy has specialized research centers pursuing advancements in drug delivery, nanotechnology cancer treatment, pharmacogenomics, and medication optimization.

UNC anchors one corner of North Carolina’s famed Research Triangle Park, which hosts an abundance of pharmaceutical, biotechnology, and healthcare companies. This environment offers opportunities for collaboration in research, education, and patient care with partners in academia, industry, and healthcare.
Who we are

A science-led global healthcare company with a special purpose: to help people do more, feel better, live longer.

We have 3 global businesses that research, develop and manufacture innovative pharmaceutical medicines, vaccines and consumer healthcare products.

Our goal is to be one of the world’s most innovative, best performing and trusted healthcare companies.

What we do

We aim to bring differentiated, high-quality and needed healthcare products to as many people as possible, with our 3 global businesses, scientific and technical know-how and talented people.

Pharmaceuticals

Our Pharmaceutical business has a broad portfolio of innovative and established medicines. We currently focus on developing new medicines in respiratory and HIV/infectious diseases, oncology and immuno-inflammation; with discovery research exploring these and other areas.

Sales turnover 2016
£16.1bn

Top 3 sales drivers 2016
- Seretide/Advair  Respiratory
- Triumeq/Tivicay  HIV
- Ellipta portfolio  Respiratory

Vaccines

Our Vaccines business has a broad portfolio and innovative pipeline of vaccines to protect people of all ages. We deliver over two million vaccine doses per day to people living in over 160 countries.

Sales turnover 2016
£4.6bn

Top 3 selling vaccines 2016
- Infanrix/Pediarix  Paediatric
- Hepatitis  Paediatric and adult
- Synflorix  Paediatric

Consumer Healthcare

Our Consumer Healthcare business develops and markets consumer preferred and expert recommended brands in the Oral health, Pain relief, Respiratory, Nutrition/gastro-intestinal and Skin health categories.

Sales turnover 2016
£7.2bn

Top 3 selling brands 2016
- Sensodyne  Oral health
- Voltaren  Pain relief
- Panadol  Pain relief
How we'll do it

Everyone at GSK will focus on three priorities:

**Innovation**
We invest in scientific and technical excellence to develop and launch a pipeline of new products that meet the needs of patients, payers and consumers.

- **£3.6bn**
  - R&D investment in 2016
- **£4.5bn**
  - New product sales in Vaccines and Pharmaceuticals in 2016
- **3**
  - Significant filings pending approval — Shingrix, Closed Triple and two drug regimens in HIV
- **13%**
  - Consumer Healthcare sales in 2016 from product innovations launched over the past three years

**Performance**
We aim to achieve industry-leading growth by investing effectively in our business, developing our people and delivering flawlessly.

- **£27.9bn**
  - Total turnover in 2016
- **£7.7bn**
  - Adjusted operating profit in 2016
- **£3.0bn**
  - Free cash flow in 2016
- **£3.9bn**
  - Dividends declared in 2016

**Trust**
We commit to ensuring the quality, safety and reliable supply of our products; and to building trust through our approach to engagement, pricing, global health and being a progressive employer.

- **8bn**
  - Packs/doses of healthcare products produced in 2016
- **86%**
  - Of employees proud to work at GSK
- **£210m**
  - Donated to local communities through product donations, time and cash
- **1st**
  - In the Access to Medicines Index all 5 times since its launch in 2006

Our values and expectations

Our values and expectations are at the heart of everything we do and form an important part of our culture.

**Our values**
- Patient focus
- Transparency
- Respect
- Integrity

**Our expectations**
- Courage
- Accountability
- Development
- Teamwork

Why we do it

To help people do more, feel better, live longer.

Brand names appearing in italics in this document are trade marked either owned by and/or licensed to GlaxoSmithKline or associated companies.
The US Medical Affairs fellowship at GSK provides the practical training and experience needed to compete successfully for positions in the pharmaceutical industry, academia, clinical practice, and contract research organizations (CROs).

The first year of the fellowship at UNC will be focused on understanding the principles of clinical research, including the important concepts of Good Clinical Practice and how they relate to the well-being of study subjects, data collection, analysis, and reporting. In addition, fellows will understand and apply various clinical design strategies, evaluate research designs and reports, employ biostatistical tests, develop a protocol, recruit and monitor patients or subjects, collect and analyze data, and prepare a manuscript from the academic perspective.

Fellows will spend the second year at GSK within US Medical Affairs and gain an understanding of the decision-making process that healthcare providers and payers follow for the utilization of approved pharmaceuticals. They will understand the laws, regulations, and policies required to ensure appropriate interactions with healthcare professionals and gain clinical proficiency and deep product expertise in a therapeutic area.

At GSK, fellows will work in a cross-functional matrix team which includes the US Medical Affairs Lead, therapy area scientific/medical directors, global medical affairs, global clinical safety and pharmacovigilance, regulatory affairs, legal, health outcomes, research and development, and commercial.
Our partnership with the UNC Eshelman School of Pharmacy provides an opportunity for the fellow to be involved in drug development from an academic perspective which will provide a solid foundation for the US Medical Affairs experience at GSK. Through the overall experience, the fellow can gain an appreciation of the value of scientific engagement between GSK and external communities and make significant contributions which can have a positive impact on patient lives.

- Shelly Lener, PharmD, BS Pharm
“During the first year of the program at UNC, I am already involved in multiple NIH-funded and investigator-initiated studies. In addition, I am also developing as a pharmacy preceptor by teaching and mentoring students. I believe the foundation of clinical research and drug development this year will set me up for medical affairs activities during the second year at GSK and beyond.”

-Hitesh Patel, PharmD

“The GSK/UNC fellowship has provided significant opportunities for growth that will allow me to reach my professional goal of launching a successful career in the (bio)pharmaceutical industry. Now during my second year I am working within the US Medical Affairs organization at GSK, which is setting an industry standard on the conduct of medical engagement. Learning from and working with professionals in an organization that is patient-driven and transparent will substantially sharpen the strategic thinking and leadership skills I need to make impactful contributions to the field of pharmaceutical care.”

-Tej Patel, PharmD
The Global Regulatory Affairs (GRA) Fellowship provides practical training and experience in Regulatory Affairs to help fellows gain expertise in regulatory requirements and strategy pertinent to drug development. Through a combination of academic and industry training, the fellow will develop an in-depth understanding of Global Regulatory Affairs and the drug development process from pre-clinical to post-marketing stages. Fellows will establish a strong foundation to successfully compete for career opportunities in the pharmaceutical industry, academia, Food and Drug Administration (FDA), and contract research organizations (CROs).

In the first 6 months, fellows will spend 2-3 days a week at the UNC, working alongside the Institute for Global Health and Infectious Disease and the UNC Lineberger Comprehensive Cancer Center. During this time, fellows will gain postgraduate didactic and development opportunities with a focus on Regulatory Affairs, drug development, and clinical trial conduct. Fellows will spend the remainder of the week at GSK within the Regulatory Affairs department.

Fellows will gain real-world experience in the Global Regulatory Affairs department at GSK, gaining hands-on opportunities across the many phases of drug development. The guidance and support from GRA mentors and experts ensure our fellows will develop valuable regulatory strategic skills and be ready to function as an effective project team leader in drug development.
Didactic courses: US and EU Regulatory Affairs Certification (RAC) Workshops, Drug Development, Clinical Trial Design, Leadership

- Apply principles of pharmaceutical product development and evaluation
- Review study protocols, patient consent forms, IRB applications, and safety assessment reports
- Interact with regulatory agencies worldwide to facilitate product development
- Develop regulatory strategy by using and interpreting regulations and guidelines
- Understand the requirements and mechanics of IND, NDA, and maintenance submissions as well as the regulatory agency review processes in the US, Europe, and rest of the world
- Prepare regulatory interaction documents and submission packages
- Additional development opportunities in regulatory medical devices/diagnostics, labeling, advertising and promotion, and regulatory intelligence
- Potential rotational opportunity at the Food and Drug Administration (FDA)

"We are very excited about this fellowship program. We see this as a unique way to develop future leaders in driving new medicines for patients. My professional journey is an example of how a fellowship program in Regulatory Affairs can be a springboard to a career in drug development."

-Jennifer Dudinak, PharmD
“The skills and knowledge I am gaining at GSK as a UNC fellow are invaluable. The preceptors and mentors at GSK are eager to share their experiences and provide opportunities essential to becoming an independent regulatory professional. I am encouraged to be proactive and shape the fellowship to fit my individual development goals. The GSK/UNC program is the perfect start to a career in the pharmaceutical industry.”

- Brittany Dustman, PharmD, MS, RAC

“The opportunity to be a fellow at UNC Eshelman School of Pharmacy, a leading pharmacy school in the nation, enables me to partake in academic courses that will strengthen my Regulatory Affairs foundation. Working alongside the Institute for Global Health and Infectious Diseases and UNC Lineberger Comprehensive Cancer Center is providing me with a deeper understanding of clinical trial research, which is an important component of the drug regulatory continuum.”

-Sara Angione, PharmD, MS

Sara Angione, PharmD, MS
First Year Fellow
Fairleigh Dickinson University

Kristina Vishnevetskaya, PharmD
First Year Fellow
Rutgers University

Brittany Dustman, PharmD, MS, RAC
Second Year Fellow
Temple University

Shivam Patel, PharmD
Second Year Fellow
Rutgers University
Pharmaceutical Outcomes Research Fellowship

PharmD, PhD, or MD

The Pharmaceutical Outcomes Research Fellowship is designed as a partnership between the Division of Pharmaceutical Outcomes and Policy at the UNC Eshelman School of Pharmacy and the US Values, Evidence, and Outcomes group at GSK. Fellows will be provided the training and experience needed to compete successfully for positions as a health outcomes researcher in consulting groups, managed care, academia, and the pharmaceutical industry. The ideal candidate should possess strong analytical skills, excellent written and verbal communication, good organizational abilities, and evidence of leadership and teamwork. A background and strong interest in outcomes research is preferred.

In the first year, fellows will spend approximately 80% of their time at UNC supplementing their didactic education. Fellows are provided opportunities to learn the science of health services research and then apply those learnings to research projects at both UNC and GSK. This applied training program integrates science into leadership, communication, and strategic thinking skills while working within research teams. Depending on each fellows’ interests, training will be received through courses related to research methods, statistics, pharmacoepidemiology, pharmaceutical policy, and/or pharmacoeconomics. The fellow will also have opportunities to design and conduct various research projects under the mentorship of faculty at the UNC Eshelman School of Pharmacy.
Fellows will spend approximately 80% of their second year at GSK in the US Values, Evidence, and Outcomes group. While at GSK, the fellow will apply health outcomes research methodology and engage in strategy discussions across various groups within US Medical Affairs. The fellow will concentrate on improving the competency in generation of health outcomes evidence related to US marketed pharmaceuticals and therapy areas. In addition, the program will emphasize strategic thinking, working within a matrix, understanding the US payer environment, communication of evidence to external and internal customers, and study conduct. Fellows will have additional opportunities to enroll in courses through UNC during the second year to further enhance their didactic understanding.

“Our partnership with the UNC Eshelman School of Pharmacy allows for a unique synergistic learning environment where the fellow has the opportunity to apply real-time learnings to a real-life research setting and ultimately to a career in health services research.”

- Richard H Stanford, PharmD, MS
The GSK/UNC Health Outcomes Fellowship is a tremendous way to receive formal classroom training while gaining industry experience. There is such a large amount of material to learn and master in pharmacoepidemiology and pharmacoeconomics, and the best way to jump at that opportunity is to have a program that can provide both a world-class education and first-hand experience. There is no place I’d rather be learning from than the prestigious University of North Carolina. The faculty has been incredibly welcoming and inclusive with their ongoing projects. Additionally, collaboration with projects at GSK starts at the beginning of the fellowship, so I have the chance to see the impact of how I can immediately apply what I’m learning. I wanted to be a part of this fellowship because the training and experience offered here is the very best foundation for a successful health outcomes career.

-Daniel Gratie, PharmD

“I was drawn to the GSK/UNC fellowship because the fellowship provides opportunities to contribute immediately to industry projects while also providing the fellow with academic experience through coursework and research at UNC Eshelman School of Pharmacy and the Gillings School of Global Public Health. The fellow spends 20% and 80% of his or her time at GSK and UNC, respectively, in year 1 and then flips to spend more time at GSK in year 2. This structure allows the fellow to take on more projects and responsibilities as they develop as a researcher and become a valuable member of the team at GSK.”

-Tyler Reinsch, PharmD

“Tyler Reinsch, PharmD
Second Year Fellow
University of Illinois-Chicago

Yi-Ting (Zoey) Chou, PhDc, MSPH
Second Year Fellow
Emory University

Daniel Gratie, PharmD
First Year Fellow
University of Illinois-Chicago

Daniel Gratie, PharmD
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Application

US Medical Affairs and Global Regulatory Affairs

The fellowship will begin July 1, 2018. See http://pharmacydpetfellowships.web.unc.edu/ for instructions on submitting an application. The application deadline for early consideration is November 15, 2017. The final deadline to apply is January 1, 2018. Early applications are highly encouraged.

Pharmaceutical Outcomes Research

The fellowship will begin July 1, 2018. Interested applicants should submit a letter of interest, curriculum vitae, official transcript, and three letters of recommendation electronically by January 1, 2018 to the following email address:

Jessica Driscoll
Division of Pharmaceutical Outcomes and Policy
jldrisko@email.unc.edu