



Inspired by **patients.**
Driven by **science.**

UCB Spring Regional Webinar

UCB PharmD Fellows

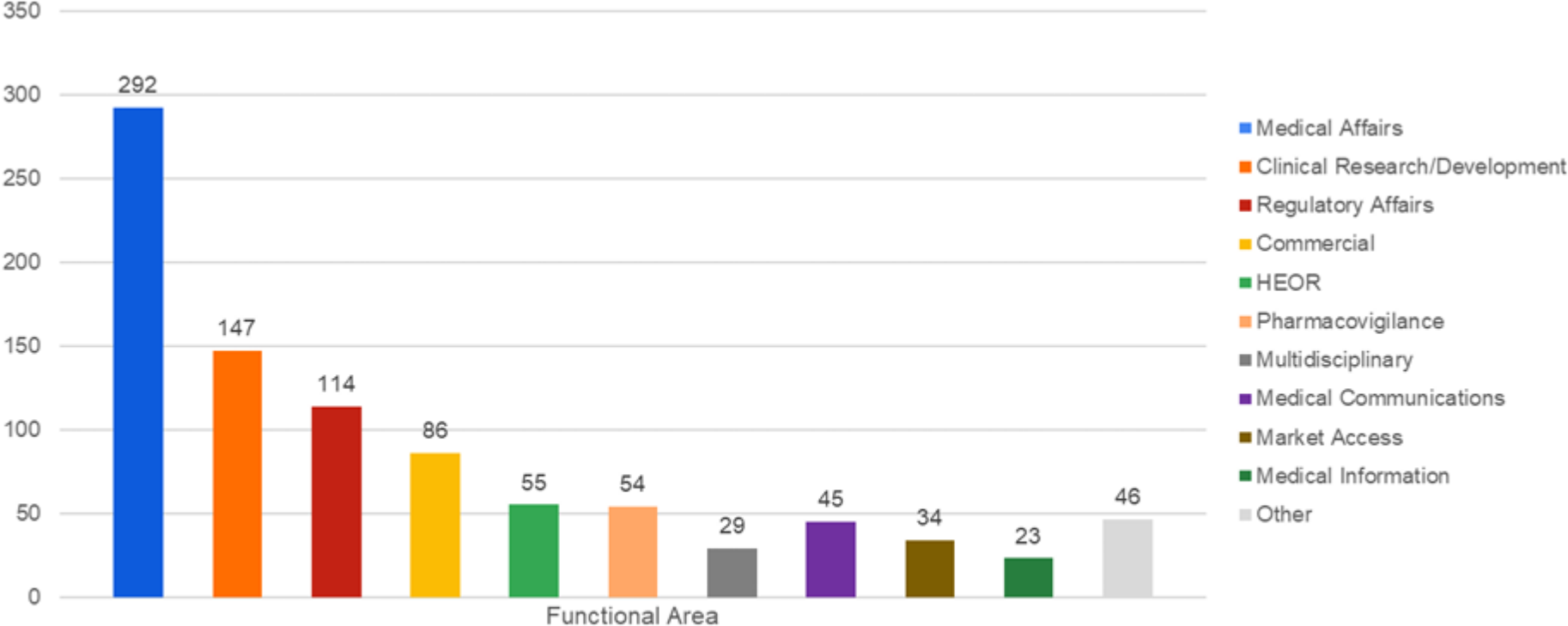
Agenda

1. Define Industry Fellowships
2. Common Fellowship Departments
3. Fellowship Functional Areas
4. Majors Partners, Sponsors, and IPhO-affiliated programs
5. Considerations when Selecting a Fellowship
6. Creating a Path Towards Fellowship
7. Resources and Alternative Routes
8. Overview of UCB
9. UCB Fellowship Programs
10. UCB Internship and APPE Opportunities

What are Industry Fellowships?

- Industry-focused fellowships provide hands-on training to prepare PharmDs for a career in the pharmaceutical or biopharmaceutical industry through contributions to various aspects of pharmaceutical drug development and commercialization.
- Duration: 1 – 2 years
 - Fellowships may vary in length depending on its components functional area. Some may even have rotational opportunities across several functional areas.
- May have university or industry organization affiliation

Most Common Fellowship Departments



Abbreviations: HEOR - Health Economics and Outcomes Research

Source: Alexander J, Ebile W, Matthews S, Christian I, Pham J. An Analysis of 2024-2025 PharmD Industry Fellowships.

Medical Affairs

- **Medical affairs** is an essential function in the pharmaceutical industry that includes:
 - Interpreting and contextualizing data
 - Generating of real-world evidence (RWE)
 - Engaging in peer-to-peer scientific dialogue that informs the company of key practice and patient insights
 - Educating healthcare providers (HCP) and healthcare decision makers on clinical and scientific data
- **Traditional medical affairs functions:**
 - Medical communications
 - Medical information
 - Medical operations
 - Field medical and external education

Clinical Development/Operations

- Helps to determine the **safety** and **efficacy** of medications and treatments intended for human use through clinical study design and implementation
- An Investigational New Drug Application (**IND**) is filed with FDA prior to initiation of Clinical studies
- Clinical development involves phases I-IV studies:
 - **Phase I:** *Healthy individuals (<100) to assess safety, tolerability and dosage*
 - **Phase II:** *To determine safety and efficacy in patients (100-300)*
 - **Phase III:** *Determines safety and efficacy in larger sample participants (300-3000)*
- A New Drug Application (**NDA**) is filed with FDA after successful phase III report
- **Phase IV** is also known as post-market surveillance

Regulatory Affairs

- Work closely with **Health Authorities** (e.g., FDA, EMA) to **comply with necessary regulations** and expectations regarding drug development to **apply innovative solutions** to medications
- Lead the development of regulatory submission/approval strategies
- Communicate with and answer questions from Health Authorities concerning clinical trial data used to **support quality, safety, and efficacy** of drugs
- Involved throughout lifecycle management of products **from discovery to post-marketing** studies
- There are **various regulatory sub-functions** that focus on different stages of the drug development cycle:
 - Advertising and Promotion
 - Chemistry, Manufacturing, and Controls (CMC)
 - Labelling
 - Operations
 - Policy & Intelligence
 - Strategy

Safety and Pharmacovigilance

- Collaborate with physicians and global stakeholders to continuously assess the safety profile of a drug product, identify the health risks involved in the administration of certain drugs, and understand the efficacy of the product
- Responsible for assessing safety information, safety signaling and data mining, and ensuring complete safety information for product materials
- Contribute to the analysis of performance metrics and support governance forums
- Anticipate regulatory implications of emerging safety issues and develop strategies for addressing them
 - Actively share insights, ideas, and strategies for global patient safety system enhancement

Other Functional Areas

- Opportunities within the industry for PharmDs are not limited to these roles
- Other functional areas include the following:
 - Commercial
 - Marketing
 - Market Access
 - Business Analytics & Market Research
 - Health Economics & Outcomes Research (HEOR)
 - Field Outcomes Liaison
 - ...and so many more!

For more information on fellowship areas, please visit industrypharmacist.org/pathfinder.php

Examples of Major Programs

Academic Partners

 <p>HOWARD UNIVERSITY College of Pharmacy</p>	 <p>MCPHS UNIVERSITY</p>
 <p>THE UNIVERSITY of NORTH CAROLINA at CHAPEL HILL</p>	 <p>NORTHEASTERN UNIVERSITY</p>
 <p>RUTGERS Institute for Pharmaceutical Industry Fellowships</p>	

Industry Sponsors

 <p>Genentech <i>A Member of the Roche Group</i></p>	 <p>Bristol Myers Squibb™</p>
 <p>SANOFI</p>	 <p>Pfizer</p>
 <p>NOVARTIS</p>	 <p>Johnson & Johnson</p>

...and so many more!

IPhO-Affiliated Programs

IPhO has partnered with several companies to offer unique and personalized pharmaceutical industry fellowship experiences for PharmDs that include:

- Access to The National Fellows Council (NFC)
- Opportunities to engage & network with IPhO leadership & other industry pharmacists
- Mentor-Match Program
- Teaching experience
- Professional publications

For more information, please visit industrypharmacist.org/fellowship_partners.php

Considerations when Selecting Fellowship Programs

- Functional area
- 1–2-year program preference
- Rotational vs. highly focused
- Affiliated vs. non-affiliated programs
- Opportunities for teaching and scholarly research
- Geographic location
- Compensation and benefits
- Professional development and opportunities
- Therapeutic areas/pipeline
- Company business profile
- Retention rates

Creating a Path Towards a Fellowship

P1/2 Year

- Seek out industry experiences (Internships, school/personal connection)
- Take industry elective courses (if available)
- Be active in professional organizations
- Create a CV
- Begin to identify mentors and develop your network
- Attend the IPhO Annual Meeting

P3 Year

- Plan for APPEs – investigate industry rotations
- Take leadership positions within professional organizations
- Scholarly activities/faculty research – publications, posters, presentations
- Attend professional meetings – APhA, ASHP, DIA, etc.
- Continue to learn more about industry
- Attend the IPhO Annual Meeting

Creating a Path Towards a Fellowship

P4 Year

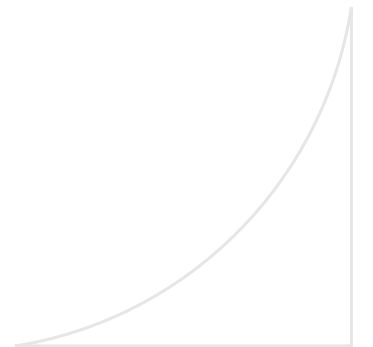
- Attend the IPhO Annual Meeting. (50% of IAM attendees get a fellowship every year)
- Industry APPE (if possible)
- Develop strong clinical and presentation skills
- Stay up to date on industry current events and issues (FiercePharma)
- Determine a specific industry career path of interest
- NETWORK, NETWORK, NETWORK!
- Start the Fellowship Application Process
- Midyear and fellowship interview preparation

Resources and Alternative Routes to Industry

- Duke University Office of Regulatory Affairs Quality (ORAQ) Training Program
 - Beginner-friendly course designed to give you a solid foundation in premarket FDA regulatory processes for drugs, biologics, and medical devices
- Master Programs and Certificates
 - Pharmacovigilance (PV)
 - Regulatory Affairs and Quality Assurance MS Program (RAQA)
 - Board Certified Medical Affairs Specialist (BCMAS)
- Direct Entry
- Consulting Companies and CROs

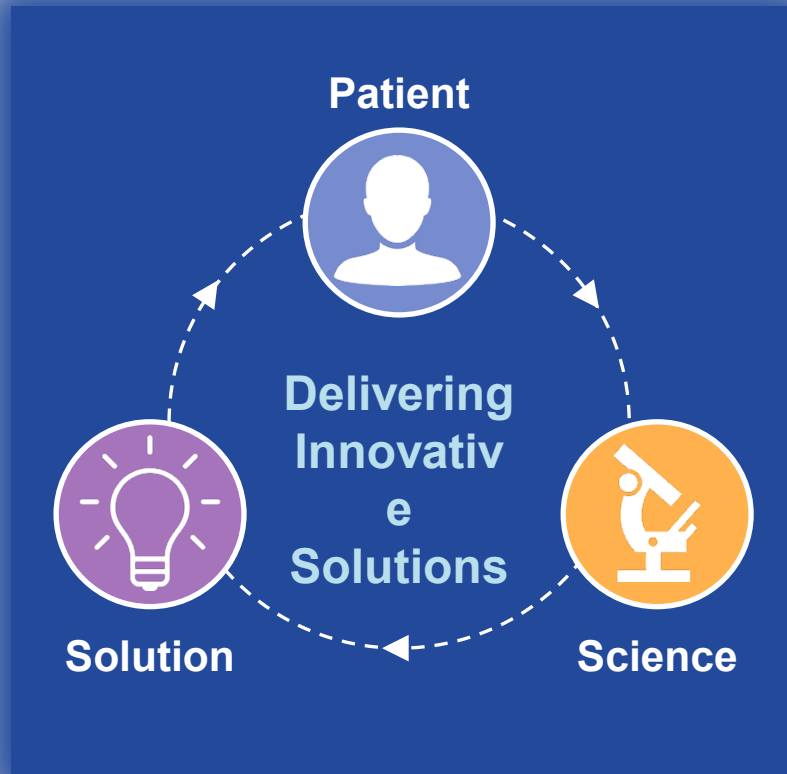


Overview of UCB



We Deliver Impactful Solutions

Everything we do starts with one question: “How will this create value for people living with severe diseases now and into the future?”



01

UCB is a global biopharmaceutical company committed to developing innovative solutions to address significant unmet needs for people living with **severe, chronic diseases**

02

By putting **patients at the heart of everything we do**, we enable people to **live their best lives**, delivering impactful solutions **patient value**

Our purpose is to create value for patients. Now and into the future.

Our areas of focus



Neurology



Immunology



Rare disease

Our people



36
Countries



9,378
Employees



>3.1 million patients
use our medicines around the world



Sustainability as business approach

1928 90+ year scientific heritage

UCB Products and Pipeline

Molecule	Modality	Therapeutic Area	Indication	Phase	Information
bimekizumab (IL-17 A/F)	Monoclonal antibody	Immunology	Post-approval head-to-head study versus risankizumab in PsA		Headline results H2 2026
bimekizumab (IL-17 A/F)	Monoclonal antibody	Immunology	Palmoplantar Pustulosis (PPP)		Phase 3 program planned to start by end of 2025
doxectine and doxribimine (nucleoside therapy)	Small molecule	Neurology	Thymidine kinase 2 deficiency (TK2d)		Filed - regulatory feedback end 2025
rozanolixizumab (FcRn inhibitor)	Monoclonal antibody	Neurology	Myelin oligodendrocyte glycoprotein (MOG) antibody disease		Headline results H2 2026
fenfluramine (5-HT agonist)	Small molecule	Neurology	CDKL5 deficiency disorder		Positive Phase 3 - submission for regulatory approval under preparation
dapirolizumab pegol (anti-CD40L antibody)	Monoclonal antibody	Immunology	Systemic lupus erythematosus		1st positive Phase 3 - 2nd Phase 3: 2028
STACCATO® alprazolam (benzodiazepine)	Small molecule	Neurology	Stereotypical prolonged seizures		Headline results H1 2026
beprenemab (anti-tau antibody)	Monoclonal antibody	Neurology	Alzheimer's disease		Encouraging Phase 2a - engaging with regulatory agencies
glovadalen / UCB0022 (D1 receptor positive allosteric modulators)	Small molecule	Neurology	Parkinson's disease		Positive Phase 2a
galvokimig / UCB9741 (IL-17 A/F & IL-13)	Multi-specific antibody	Immunology	Atopic dermatitis		Positive Phase 2a - start phase 2b by end of 2025
donzakimig / UCB1381 (IL-13 & IL-22)	Multi-specific antibody	Immunology	Atopic dermatitis		Headline results H2 2025

UCB Fellowship Program History

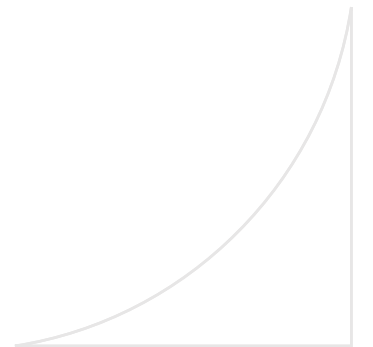
Fellowship Mission is to develop and maintain a program that nurtures growth of successful industry professionals



Past Fellows	2 nd Year Fellows (2024-2026)	1 st Year Fellows (2025-2027)
<p>2018-2024:</p> <ul style="list-style-type: none"> • 13 Fellows (6 GRA, 3 MS&PV, 3 MA, 1 GSCO) have completed the program • 11 of 13 Fellows were retained by UCB upon fellowship completion as: <ul style="list-style-type: none"> • Regulatory Scientist • CMC Scientist • Safety Scientist • Medical Affairs Specialist • Principal Safety Officer • Strategic Partnering Infrastructure Specialist 	<p>Izzabella Christian, GRA</p> <p>Maria Reji, MS&PV</p> <p>Taysir Chamem, GCSO</p> <p>Joelle Odigie, GMA</p>	<p>Jenny Kong, GRA</p> <p>Zehra Razai, MS&PV</p> <p>Brooke Stephen, MA</p> <p>Alyssa DeAngelo, MA</p> <p>Megan Gidron, GCSO</p> <p>Cailyn Persinger, GCSO</p>

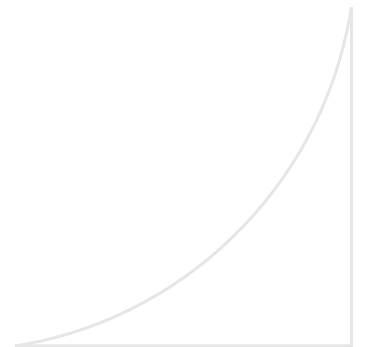


UCB Fellowship Programs





Global Regulatory Affairs (GRA) Fellowship Program



GRA Fellowship Rotations

The Global Regulatory Affairs Fellowship is a 2-year program located in Atlanta, GA.

The fellow engages in dynamic rotations across distinct domains within Regulatory Affairs. This immersive experience fosters vital insights, from submissions precision and evolving framework navigation to aligning compliance with strategic drug development.

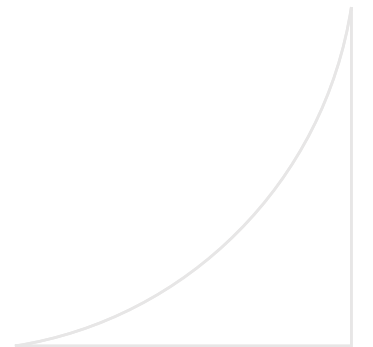
Rotation	Timeframe
Introduction to Regulatory Operations	2 week overlap with RTS
Regulatory Therapeutic Sciences (RTS)	8 months
Advertising, Promotion, & Labeling	5.5 months
Chemistry Manufacturing & Controls (CMC) & Devices	4.5 months
Regulatory Operations	1 month
Elective rotation	3 months
Fellow's Choice for Core Rotation (RTS, Ad-Promo/Labeling, CMC)	2 months



Reg-ops longitudinal component



Medical Affairs (MA)-Immunology Fellowship Program



MA- Immunology Fellowship Rotations

The Medical Affairs - Immunology Fellowship is a 2-year program located at the US HQ in Atlanta, GA

The fellow will be an integral part of the Medical Affairs team gaining exposure to medical strategy and tactics with cross-functional alignment across the business: HEOR, Commercial, Marketing, and more

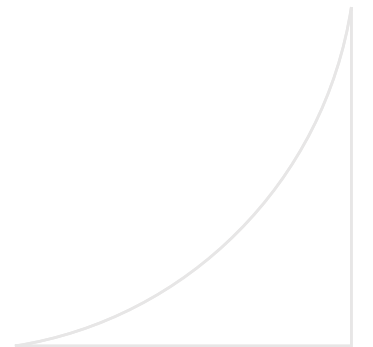
Rotation	Timeframe
Medical Affairs Strategy - Immunology	15 months
Optional Rotations (Choices up to three 3-month rotations)	
Continue Medical Affairs Strategy - Immunology	3 months
Medical Information	3 months
Medical Review	3 months
Medical Digital Strategy	3 months
Field Medical and Operations	3 months

What to expect?

- Understand how Medical Affairs brings value to HCPs and patients
- Participate in broad strategic planning in Medical Affairs
- Execute Medical Affairs tactics: Data dissemination strategy, Congress strategy, Creation of Medical Resources



Medical Safety and Pharmacovigilance (MS&PV) Fellowship Program



MS&PV Fellowship Rotations

The Medical Safety and Pharmacovigilance Fellowship is a 2-year program located in RTP, NC.

The fellow rotates within the various sub-functions of Patient Safety to gain expertise on safety/pharmacovigilance critical processes applicable to UCB.

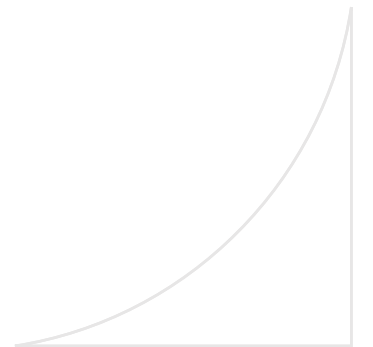
Rotation	Timeframe
Safety Systems, Operations, and Medical Devices	8 months
BRAMS	8 months
International Pharmacovigilance (UCB Affiliates)	3 months
Elective rotation	3 months
Final rotation: Fellow's Choice within Medical Safety and Pharmacovigilance	2 months

What to expect?

- In-depth knowledge of the critical safety processes (e.g. product and device benefit risk, product and device safety profile, signal and risk management).
- Understanding the worldwide Pharmacovigilance regulatory requirements applicable to our industry.
- Understanding the role of the Patient Safety function and the transversal collaborations with other functions



Global Clinical Sciences & Operations (GCSO) Fellowship Program



GCSO Fellowship Rotations

The Global Clinical Sciences & Operations Fellowship is a 2-year program located in RTP, NC.

The fellow rotates within the various sub-functions of GCSO to gain in-depth end-to-end knowledge of the fundamentals of clinical trial operations.

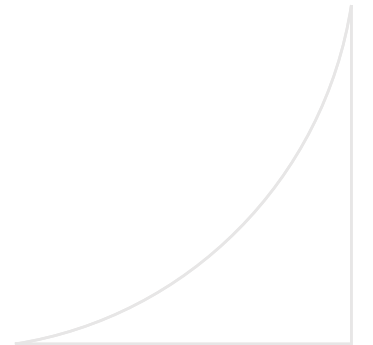
Rotation	Timeframe
Clinical Project Management	6 months
Clinical Data Management	5 months
Global Medical Writing	5 months
Strategic Clinical Partnering	5 months
Elective rotation: Fellow's Choice within or outside GCSO	3 months

What to expect? You will...

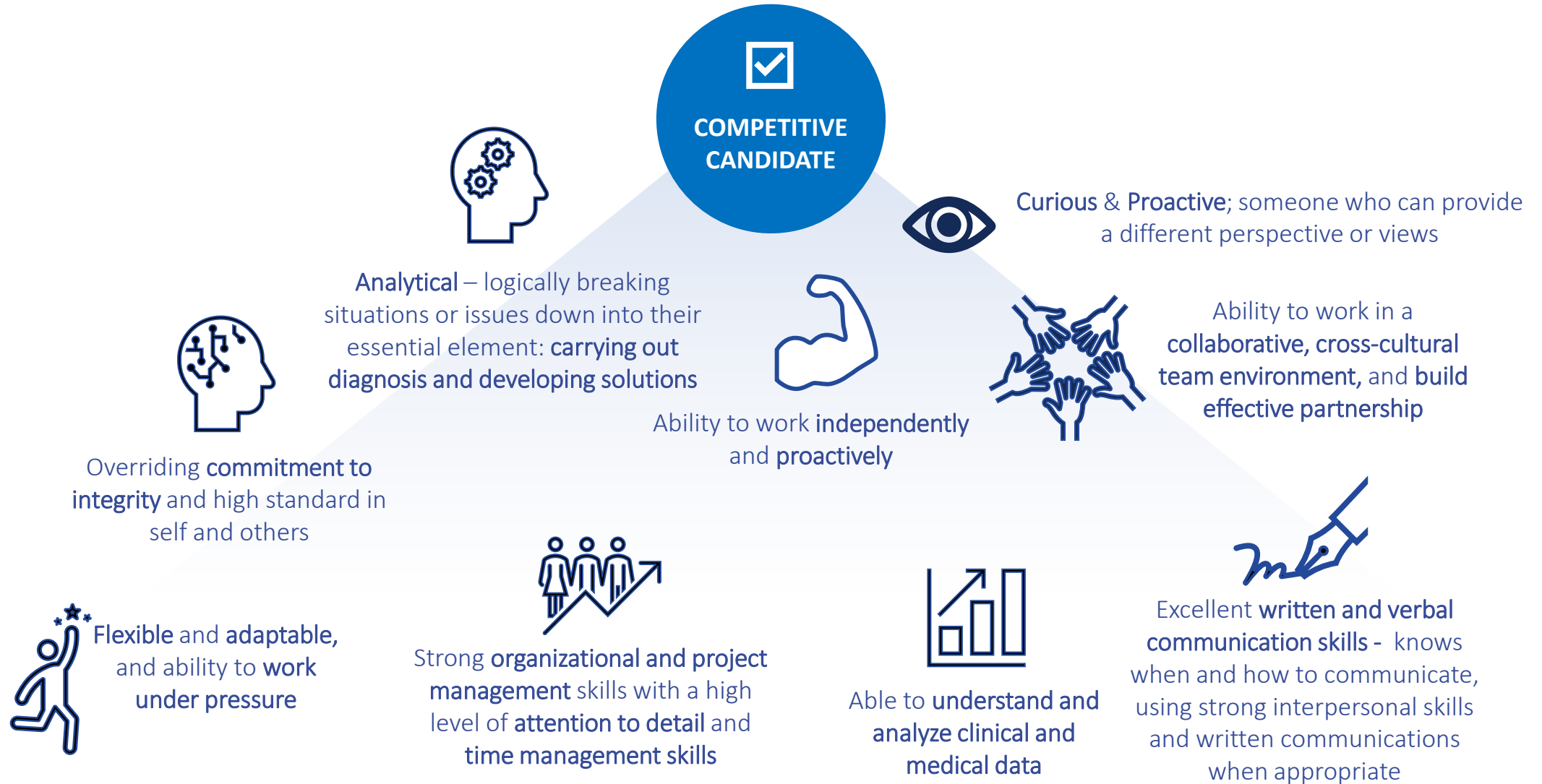
- Develop an understanding of the end-to-end processes that enable execution of clinical trials.
- Participate in the logistical activities of study start-up through to study close-out.
- Engage daily with global colleagues in operations and across many other functions within the company.



What does a GREAT candidate look like?!

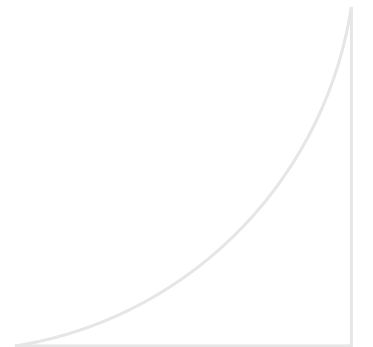


What is UCB Looking for in a Fellow Candidate?





UCB Internship and APPE Opportunities



UCB Internships

US Summer Internship Program

- Program runs from May through first week in August
- College juniors & seniors, graduate students, and beyond
- Recruitment in January & February for summer roles
- Job postings on LinkedIn, Indeed, and Handshake
- Roles vary from year to year
- Onsite internships in Atlanta, Raleigh, Washington, D.C.



Advanced Pharmacy Practice Experience (APPE) Opportunities

The UCB APPE offers a distinctive learning experience, enabling students to collaborate with colleagues globally. The program mirrors the structure of the UCB fellowships, providing a rotational experience across multiple subfunctions.

Currently in-person in Smyrna, GA and RTP, NC (no remote opportunities yet established)

Functional areas available: Medical Affairs (ATL), Global Regulatory Affairs (ATL), Global Clinical Development (RTP)

Contact the respective fellowship director for more details on partnership with your pharmacy school

Fellowship Directors

Iram Hasan, PharmD



**GRA Fellowship
Program Director**

Bella Sessoms, MPH



**MS&PV Fellowship
Program Director**

Amber Barnes, PhD



**GCSO Fellowship
Program Director**

Tae Oh, PharmD



**MA – Immunology
Fellowship Program Co-Director**

Cori Cooper, PharmD



**MA – Immunology
Fellowship Program Co-Director**

Chioma Ezenduka, PharmD



**GMA Fellowship
Program Director**



Inspired by **patients.**
Driven by **science.**

Thank you! Any questions?

For more information, visit: <https://www.ucb-usa.com/UCB-in-the-U-S/US-PharmD-Fellowships>

Still have questions? Email us at [**ucbpharmdfellowshipprogram@ucb.com**](mailto:ucbpharmdfellowshipprogram@ucb.com)