



**Duke Pharmacy**  
Duke University Hospital

# PGY1 Pharmacy Residency



*Thank you for your interest in residency training at Duke University Hospital. Duke University Hospital is an academic medical center and serves as the flagship of Duke University Health System (DUHS), which includes two community hospitals, Duke Regional Hospital and Duke Raleigh Hospital, as well as affiliations with other hospitals in the region, community-based primary care practices, home care, infusion services, and hospice care. Rooted in excellent healthcare services, strong pharmacy services, outstanding residency preceptors, and a receptive environment for learners, the Duke University Hospital PGY1 Residency Program provides an exceptional environment to develop the skills needed to become a successful clinical pharmacist.*

### **Training Site and Pharmacy Services**

A tertiary and quaternary care hospital, the 1,048-bed Duke University Hospital (DUH) is consistently rated as one of the top hospitals in the United States. It offers comprehensive diagnostic and therapeutic facilities that includes a Level 1 regional emergency/trauma center, the Duke Medicine Pavilion that comprises a critical care facility including an extensive complement of major surgery suites, the Duke Central Tower, a comprehensive cancer center recognized as one of 40 National Cancer Institutes across the country, an Eye Center, the Duke Heart Center, and the Children's Health Center. DUH also functions as a research hospital, housing a federally funded clinical research unit where medical advances are achieved and applied, as well as a teaching hospital for students of medicine, nursing, and the allied health sciences.

### **Department of Pharmacy Mission and Vision**

The Mission of Duke Pharmacy is to deliver exceptional pharmacy services for a healthier tomorrow. The Vision of Duke Pharmacy is to be a distinguished global leader in pharmacy care. The accessibility of pharmacy services is advanced by the innovative use of personnel and technology as demonstrated through the implementation of the Medication Management Center. Employees work as a team to create an exceptional work environment.

Pharmacy services are provided by clinical pharmacists using state of the art systems to support their practices. The implementation of EPIC Maestro Care facilitates coordinated patient care management – with a goal of one patient, one record, one Health System. Medication preparation and distribution is also technology-based with centralized distribution processes, profiled automated dispensing cabinets

and dedicated sterile products operations (including robotic intravenous admixture systems). Outpatient pharmacies serve ambulatory patients in four areas: Duke Clinic, Duke Cancer Center, Children's Health Center, and North Pavilion.

Clinical pharmacy services are well recognized for all medical and surgical services and include cardiology, internal medicine, hematology/oncology, critical care medicine, infectious disease, surgery, solid organ transplantation, pediatrics, adult and pediatric bone marrow transplantation, anticoagulation, pain management, emergency medicine, and nutrition support. Comprehensive medication use policy, medication safety, informatics, and investigational drug services complement clinical pharmacy services. Clinical rotations are offered to pharmacy students from Campbell University and the University of North Carolina.



### **Program Leadership**

**Brianna Alexander, Pharm.D., BCPS**, serves as the Director of the Duke University Hospital PGY1 Pharmacy Residency Program. Dr. Alexander joined the pharmacy team in 2013 as an internal medicine clinical pharmacist and throughout her tenure has served as a Residency Selection Committee member and PGY1 Residency Advisory Committee Member.

### **Program Purpose**

PGY1 residency programs build upon Doctor of Pharmacy (PharmD) education and outcomes to develop pharmacist practitioners with knowledge, skills, and abilities as defined in the educational competency areas, goals, and objectives. Residents who successfully complete PGY1 residency programs will be skilled in diverse patient care, practice management, leadership, and education, and be prepared to provide patient care, seek board certification in pharmacotherapy (i.e., BCPS), and pursue advanced education and training opportunities including postgraduate year two (PGY2) residencies.

## Education

Each resident delivers three ACPE-accredited presentations: a Pharmacy Grand Rounds, a case-based presentation, and a presentation of his/her year-long research project. Residents actively contribute in clinical teaching and have the opportunity to teach allied health professionals including medical, nursing, physician assistant, and physical therapy students. Residents also have the opportunity to precept pharmacy students on clinical rotations from Campbell University, UNC Eshelman School of Pharmacy, and various other pharmacy schools. Teaching Certificate program is offered to PGY1 residents and is comprised of monthly meetings throughout the year.

## Major Project and Research

The development of research skills is an essential component of the residency program. Each resident completes a formal research project suitable for publication in a selected area of pharmacy practice and is supported by a Pharmacy Research Committee and a statistical team through the Department of Clinical Research. Resident research projects are presented at the Research in Education and Practice Symposium. Other opportunities to participate in ongoing clinical trials and studies are available through rotations and established professional relationships.

## Rotations / Experiences

Residents complete a series of required and elective month-long rotations. Required rotations include internal medicine, ambulatory care, pharmacy administration, pediatrics, drug information, advanced acute care, and critical care.

**Ambulatory Patient Care** is a month experience in a Duke Ambulatory Clinic. Residents may provide services in diabetes management, hypertension, and anticoagulation.

**Drug Information/Medication Policy Development** is a one-month experience where residents participate in formulary review processes, medication policy development, evaluation of medication use, and contribute to health system communications and committees.

**Administration** offers residents the opportunity to work closely with the Senior Management Group on projects aimed at developing an understanding of how all components of pharmacy services are integrated in the provision of patient care services.

**Critical Care** experiences can be completed in any of the following ICUs: coronary care/cardiac, medical, surgical, pediatric, cardiothoracic, and neurosurgery/neurology.

**Additional Electives:** Infectious diseases, Transplant, Emergency Department, Hematology/Oncology, Cardiology, Anticoagulation, Psychiatry, Population Health Clinic, Specialty Ambulatory Care clinics (heart failure, transplant, etc).

**Pharmacy Staffing Experience** is obtained throughout the year in both decentralized and centralized staffing within the Clinical and Patient Care Services Division and Inpatient Operations Division. PGY1s have the opportunity to cover the Emergency Department, surgery, cardiology, and general medicine floors to satisfy the clinical staffing requirement.

**Longitudinal Experiences** are offered in the following areas: Formulary Evaluation Team and P&T involvement, Medication Use Evaluation project and Emergency Response (LER) participation. LER experience provides residents opportunities to respond to medical emergencies (e.g. code blue, rapid response) throughout the institution to gain confidence when responding to critical situations.

The Duke Residency Programs participate in the residency early commit process for our PGY2 programs. Please see the Duke Residency Website to learn more about our PGY2 programs.

## Benefits:

Duke utilizes a Paid Time Off (PTO) program whereby residents accrue up to 35 PTO days during their residency training; 15 PTO days may be used for personal leave. The remaining PTO is to be used for sick or funeral leave, holidays, seminars, meetings, and interviews.

## HEALTH BENEFITS

Health coverage for you and your immediate family is available through optional Duke Health Care Plans.

For information about Duke's generous benefits, please go to <http://www.hr.duke.edu>

## PAGERS

Each resident is provided with an alpha-numeric pager and access to the pager using a phone-based application.

## OFFICE SPACE

An office space is provided for residents in the Duke Clinic Pharmacy area. Residents have access to a monitor and laptop docking station, copier, fax machine, printers, telephone, a refrigerator and microwave located within their office area.

## COMPUTER SERVICES

The Department of Pharmacy is connected by a secure computer network allowing access to many different software and database programs both on site and abroad. Residents are provided laptop computers.

## LIBRARY FACILITIES

Residents have privileges at the Medical Center Library located on the Medical Center campus. Residents have access to numerous online journals: <http://www.mclibrary.duke.edu/>

## Application Information

To apply for this residency, the following is required:

- Cover letter (approximately 1 page)
- Completed PhORCAS Application
- Curriculum Vitae
- Pharmacy college transcripts
- Complete recommendations (a minimum of **four** recommendations are required, at least two of which should be from clinical preceptors. See website for additional letter requirements.)
- Resident Matching Program number from the National Matching Service

Your cover letter, residency application, curriculum vitae, and college transcripts must be received into PhORCAS no later than **January 2<sup>nd</sup>**. After review by our Residency Selection Committee, qualified applicants will be notified to arrange an interview during select days in January or February. This full-day interview provides an excellent opportunity for residency applicants to become acquainted with the facilities, personnel, and residency program. Early application and file completion allow us to review candidates expeditiously.

Please visit our website at <http://pharmacy.duke.edu/home> for additional information

For questions, please contact:

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