



**Duke University Hospital**



Post Graduate Year Two (PGY2)

**Internal Medicine Pharmacy Residency**

*ASHP Accredited*

## About the Department

Duke University Hospital (DUH) is a 1,048 licensed bed 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, homecare and hospice, and infusion services.

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

The DUH Department of Pharmacy is recognized for quality and diversity of services, professional leadership and educational excellence. The accessibility of pharmacy services is advanced by the innovative use of personnel and technology. Employees work as a team to create an exceptional work environment.

**Our Mission** To deliver exceptional pharmacy services for a healthier tomorrow

**Our Vision** To be a distinguished global leader in pharmacy care

To achieve this mission, the Department employs multiple pharmacy practice models in both the inpatient setting and outpatient clinics. Pharmacy services are provided by over 400 pharmacists, technicians and administrative staff using state-of-the-art technology systems to support their practices. The implementation of Epic Maestro Care facilitates coordinated patient 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. Outpatient pharmacies serve the needs of the 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 general medicine, hematology/oncology, cardiology, critical care medicine, infectious diseases, surgery, solid organ transplant, pediatrics, adult and pediatric bone marrow transplantation, neurology, anticoagulation, emergency medicine and nutrition support.




## Postgraduate Training Programs

For over 45 years, our program has been training residents to become confident and competent practitioners equipped with the knowledge and skills to meet the challenges facing pharmacy practice both now and in the future. We measure our success each year through the ability of our graduates to obtain the most competitive specialty residencies, fellowships, academic, and clinical positions available. Our commitment to continued excellence guarantees that our program will only strengthen in the future.

In addition to clinical activities, residents are involved in educational programs, including pharmacy conferences and journal clubs. Other teaching opportunities include co-precepting students from the University of North Carolina Eshelman School of Pharmacy and Campbell College of Pharmacy, delivering didactic lectures within the Duke University Doctor of Physical Therapy program, and delivering medical and nursing in-services. Research skills are developed through completion of a research project and/or drug use evaluation. Residents attend the ASHP Midyear Clinical Meeting, the Southeastern Residency Conference, and have the opportunity to attend and participate in other state and local conferences.

DUH offers 12 distinct PGY1 and PGY2 pharmacy residency programs. The residency selection process is an important professional decision, an investment that will reap rewards for many years to come. We are pleased that you are interested in a Duke Residency and hope that you complete an application to our program!



### PGY1 Pharmacy

PGY1 and PGY2 Combined Health System Administration

PGY2 Ambulatory Care Pharmacy

PGY2 Cardiology Pharmacy

PGY2 Critical Care Pharmacy

PGY2 Drug Information (GlaxoSmithKline)

PGY2 Emergency Medicine Pharmacy

PGY2 Infectious Diseases Pharmacy

### **PGY2 Internal Medicine Pharmacy**

PGY2 Oncology Pharmacy

PGY2 Pediatric Pharmacy

PGY2 Solid Organ Transplant Pharmacy

# PGY2 Internal Medicine Pharmacy

## Introduction

The Duke University Hospital Postgraduate Year Two (PGY2) Internal Medicine Pharmacy Residency Program is designed to develop independent practitioners that have the knowledge and accumulated experience necessary to provide excellent care in acute care pharmacy practice. The Internal Medicine Residency Program builds upon the general competencies achieved during a PGY1 residency; expanding the resident's ability to provide care for complex patients in a variety of acute care settings. Training focuses on a full range of disease states and disorders, along with the literature supporting medication management of such conditions. Rotations are designed to ensure experience is gained with the highest acuity patients in each sub-specialty area. In addition, residents are able to conduct research independently and should be confident educators in the multidisciplinary and pharmacy training environment. Graduates will be prepared to attain board certification (BCPS).

## Purpose

PGY2 residency programs build upon Doctor of Pharmacy (PharmD) education and PGY1 pharmacy residency training to develop pharmacist practitioners with knowledge, skills, and abilities as defined in the educational competency areas, goals, and objectives for advanced practice areas. Residents who successfully complete PGY2 residency programs are prepared for advanced patient care or other specialized positions, and board certification in the advanced practice area, if available.

The purpose of the PGY2 Internal Medicine Pharmacy Residency Program is to prepare the resident to excel in the care of complex patients in the inpatient setting.

## Outcomes

**Outcome R1:** Serve as an authoritative resource on the optimal use of medications

**Outcome R2:** Optimize the outcomes of internal medicine patients by providing evidence –based, patient-centered medication therapy as an integral part of an interdisciplinary team

**Outcome R3:** Demonstrate excellence in the provision of training and educational activities for health care professionals and health care professionals in training

**Outcome R4:** Demonstrate leadership and practice management skills

**Outcome R5:** Contribute to the body of pharmacy knowledge in internal medicine

**Outcome R6:** Evaluate, manage, and improve the medication-use process

## The Residency Experience

This residency is designed to provide diverse clinical experiences and prepare graduates to excel in the care of acute care medicine patients. Residents will refine their skills in the internal medicine environment via a well-established integrated clinical practice model with increased autonomy and responsibility for managing patient care practice. Required rotations include five different medicine rotations, cardiology, MICU, infectious diseases and transitions of care. Elective experiences include neurology, emergency medicine, abdominal transplant, advanced pulmonology, ambulatory care and more depending on the specific interests of the resident. The resident will actively participate in interdisciplinary rounding, conferences, committees, journal clubs, in-services and research. Teaching opportunities are available with local Colleges of Pharmacy and Duke School of Medicine.

## Rotations

Required Learning Experiences and Duration	
Orientation	1 month (July)
Internal Medicine	1 month
Advanced Internal Medicine	1 month
Medicine Psychiatry	1 month
Hospitalist	1 month
Internal Medicine Precepting	1 month
Cardiology	1 month
Medical Intensive Care Unit	1 month
Research	1 month (December)
Infectious Diseases	1 month
Grand Rounds and Case Presentation	2 months (Fall: Grand Rounds, Spring: Case Presentation)
Inpatient Staffing Longitudinal	Longitudinal (July – June)
Research Longitudinal	Longitudinal (July – June)
Practice Management Longitudinal (including Internal Medicine Conference and Formulary Evaluation Team)	Longitudinal (July – June)
Emergency Response Longitudinal	Longitudinal (July – June)
Transitions of Care Longitudinal	Longitudinal (January-June, 2 afternoons/month)
Elective Learning Experiences and Duration	
Options include, but are not limited to: Neurology Emergency Medicine Adult Abdominal Transplant Advanced Pulmonology Ambulatory Care Any core rotation	2 months (1 month each, Spring)

## Education and Teaching

Each resident delivers formal presentations at Pharmacy Noon Conference. Residents actively contribute in case study presentations and clinical teaching. Pharmacy residents will have the opportunity to teach allied health professionals including medical, nursing, and physical therapy students, as well as provide didactic lectures to students enrolled in local Schools of Pharmacy or interprofessional schools at Duke University. Residents also have the opportunity to precept PGY1 residents and pharmacy students on rotation.

## Research

The ongoing development of research skills is an essential component of a residency program. The resident completes a formal residency project suitable for publication in a selected area of pharmacy practice. Duke provides statistician support for the research project. Resident research projects are presented at a national or regional conference.

## Staffing Experience

Staffing will be incorporated into the residency experience in decentralized areas within the Clinical and Patient Care Service Division. PGY2s will be invited to staff every 3rd weekend. Activities include verifying medication orders, providing pharmacokinetic consults, performing clinical monitoring, responding to drug information questions, providing patient education and attending medical emergencies.

## Benefits

**Stipend:** \$58,688

**Paid Time Off (PTO):** Resident accrue 35 PTO days during the 12-month program. Fifteen days of PTO may be used for scheduled personal leave. The remaining PTO is available for illness, attendance at professional meetings and interviews.

**Health Benefits:** Health coverage for you and your immediate family is available through optional Duke Health Care Plans. Please visit <http://www.hr.duke.edu> for more information.

**Wellness:** The Duke University Hospital Longitudinal Resident Wellness curriculum focuses on SAMHSA's Eight Dimensions of Wellness and covers a variety of practical topics including time management, cognitive behavioral therapy, financial health, and career transitions. In addition, the [Duke Personal Assistance Service \(PAS\)](#) offers counseling and well-being visits tailored to trainees free of cost.

**Pagers:** Each resident is provided with an alpha-numeric pager.

**On-Call Services:** No formal in-house call is required; however, rotations are associated with after-hours service responsibility.

**Office Space:** Offices are provided for the residents in the Duke South Pharmacy area. Located within the office are a copier, fax machine, printers, phone with voicemail, and a refrigerator.

**Computer Services:** The Department of Pharmacy is connected by a computer network allowing access to many different software and database programs. Residents are provided notebook computers.

**Library Services:** Residents have check-out and copier privileges at the Medical Center Library located on the Medical Center campus. The library also provides on-line access to numerous journals.

## 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 three recommendations are required– at least 2 but preferably all 3 from clinical preceptors)
- Resident Matching Program number from the National Matching Service

**NMS Match Code:** 654556

Your cover letter, residency application, curriculum vitae, and college transcripts must be received into PhORCAS no later than **January 5th**. 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.



**For questions please contact:**

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## Program Director



Maegan Greenland, PharmD, MS, BCPS is an Internal Medicine clinical pharmacist at Duke University Hospital. She obtained her PharmD from Purdue University School of Pharmacy, along with a Masters of Science in Industrial Administration. She then completed her PGY1 Pharmacy and PGY2 Internal Medicine residency training at the Richard L. Roudebush VA Medical Center in Indianapolis, IN.

Dr. Greenland joined the Duke University Hospital clinical pharmacy team in 2014 and served as a PGY1 resident coordinator and PGY1 Residency Advisory Committee member prior to launching the PGY2 Internal Medicine program in 2022. Throughout her tenure at Duke, Dr. Greenland has been involved in preceptor development, multidisciplinary process-improvement projects, research, design and expansion of clinical pharmacy services, and she currently serves as the pharmacy coordinator of internal medicine services. She spends her free time working on home projects, endless yardwork, and traveling.

## Preceptors

This PGY2 Internal Medicine residency is supported by a strong group of internal medicine and other specialty pharmacy preceptors who come from a variety of backgrounds and residency training, offering diverse clinical perspectives. These preceptors serve as pharmacy practice role models through board-certification and active involvement in resident research, process improvement projects, clinical service expansion / improvement initiatives, drug policy and other committees, etc.

The Duke University Department of Pharmacy is committed to supporting the professional goals of each preceptor. The department's support includes regular preceptor development seminars, live ACPE-accredited presentations, financial support for professional development and educational conferences, and more.

To learn more about our Duke Preceptors, please visit:

<https://pharmacy.duke.edu/residency-programs/our-preceptors>

**Thank you for your interest in Duke University Hospitals PGY2 Residency programs!**

