

Residency Information						
Location	Portland, Oregon	Ann Arbor, Michigan	Salt Lake City, Utah	Tampa, Florida	San Diego, California	Nashville, Tennessee
Length of program	1 year (PGY2 only)	1 year (PGY2 only)	1-2 years	1 year	1 year (PGY2 only)	1 year (PGY2 only)
Informatics education	Information/project management, student/resident teaching, research, clinical decision support, data warehousing, internet-based applications, user training, drug information/drug policy, CPOE/EMR, evidence based medicine, vendor relations, pharmacy automation, health information technology	Prepare pharmacists to be leaders in informatics. Education will include technology concepts, project management, informatics research and education. Residents will be exposed to a wide variety of informatics topics and experiences.	Healthcare informatics with an emphasis on clinical applications, CPOE/EMAR implementation, pharmacy automation, bar code technology, smart pumps, vendor relations and private industry (TheraDoc).	Informatics program is based on core educational material from the American Medical Informatics Association and includes training in the VA's Hospital Information Systems. The program partners with industrial engineering departments of two universities to expose the resident to the more technical aspects of Informatics. Contact Program for more information.	Information/project management, data warehousing, internet-based applications, CPOE/Electronic Medical Record/BCMA maintenance, pharmacy automation	Information/Project Management, project lifecycle, technology infrastructure, integration/interface, implementation, CPOE, EMR, BCMA, pharmacy automation, vendor relations
Degree/certification opportunity	None	None	Masters of Science in Medical Informatics or Masters in Public Health (Must apply for acceptance into graduate programs)	None	None	None
Accreditation	ASHP accredited	ASHP accredited	ASHP accredited	Candidate	Candidate	Candidate
Clinical responsibilities	Varies depending on clinical site, but similar to practice residents	One weekend kinetic coverage monthly and one major plus one minor holiday	Varies depending on clinical site, but similar to practice residents	At the discretion of the resident and preceptor	At the discretion of resident and clinical preceptors	Mixed clinical and technical rotations at the discretion of the resident and preceptors
Required clinics	None	None	None	None	Tailored to the resident	Tailored to the resident
Informatics projects	One 1-year long project and multiple smaller projects. Initiatives involving bar-code medication administration, pharmacy automation and roles in the new OHSU health information technology/system initiatives depending on availability.	Projects vary depending on availability: two publishable papers	Varies based on availability. One major residency project required; presented at the Western States Residency Conference.	One major project and various smaller projects involving automation and project management.	Projects vary depending on availability	Multiple projects with at least one primary/longitudinal
Required rotations	Medication safety, drug information/drug policy, health-system administration; experiences are longitudinal	Tailored to the resident's career goals	Tailored to the resident	No elective rotations are required but will be allowed with mutual consent of the resident and program director.	No rotations, longitudinal residency	Tailored to the resident
Staffing	Optional schedule to be determined	Clinical staffing on required weekends only	Four 8-hour shifts per month	Optional with dual appointment	Based upon prior VA staffing experience	Every 4 th weekend plus two hours each week, one holiday per year
On-call pager responsibility	Schedule varies	None	None	None	None	Schedule varies
Residency directors and contact information	Mike Brownlee, MS, Pharm.D. Informatics Program Director Director, Pharmacy Services brownlem@ohsu.edu Joe Lassiter, RPh, MS Informatics Program Coordinator Informatics Pharmacist lassiter@ohsu.edu Oregon Health & Science University Hospitals and Clinics Department of Pharmacy Services, Mail code CR 9-4 3181 SW Sam Jackson Park Road Portland, OR 97239 Phone: 503-494-8007 http://www.ohsu.edu/pharmacy/residency	Scott McCreddie, Pharm.D, MBA, Strategic Projects Coordinator University of Michigan Hospitals and Health Centers, UHB2D301, 1500 E. Medical Center Drive, Ann Arbor, MI 48109-0008 Phone: 734-615-2165 Email: srmc@umich.edu http://www.pharm.med.umich.edu/public/residencies/informatics/	Craig Herzog, RPh, MBA Director, Pharmacy Automation & Informatics University of Utah Hospitals and Clinics Department of Pharmacy Services 50 North Medical Drive Salt Lake City, UT 84132 Phone: 801-585-2188 Email: craig.herzog@hsc.utah.edu http://uuhs.utah.edu/pharmacy/resident/clinical_informatics.html	Nicholas A Coblio, BSPHarm, MSEM, PhD(abd), RPh James A. Haley Veterans Hospital Department of Pharmacy (119) 13000 Bruce B Downs Blvd Tampa, FL 33610 Phone: 813-978-5804 nicholas.coblio@va.gov	Daniel Boggie, Pharm.D. Director, Pharmacy Data Applications Email: Daniel.Boggie@va.gov or Jennifer Howard, Pharm.D. Director, Pharmaceutical Integrated Technologies Email: Jennifer.Howard2@va.gov VA San Diego Healthcare System Pharmacy Service (119) 3350 La Jolla Village Dr. San Diego, CA 92161 Phone: 858-552-8585 x 3026 Fax: 858-552-7582	Carly Feldott, Pharm.D. Informatics Pharmacist & Program Director Vanderbilt University Medical Center 1211 Medical Center Drive . B101 VUH Nashville, TN 37232-7610 carly.feldott@vanderbilt.edu Phone: 615-936-1992 http://www.mc.vanderbilt.edu/root/vumc.php?site=pharmacy&doc=6045

Pharmacy Informatics Specialty Residency & Fellowship Programs

To learn more about pharmacy informatics and exciting informatics residency opportunities, visit ASHP's newest section: Pharmacy Informatics and Technology

<http://www.ashp.org/informatics>



7272 Wisconsin Avenue
Bethesda, Maryland 20814
866-279-0681
Fax: 301-664-8877
www.ashp.org

Pharmacy Informatics Specialty Residency/Fellowship Programs

Residency Information	 BRIGHAM AND WOMEN'S HOSPITAL	 OHIO STATE UNIVERSITY Medical Center	 JOHN'S HOPKINS MEDICINE THE JOHN'S HOPKINS HOSPITAL		 UofL HealthCare University of Louisville HealthCare	 CEDARS-SINAI MEDICAL CENTER.	 PENN STATE Milton S. Hershey Medical Center	 S E N T A R A .	 YALE-NEW HAVEN HOSPITAL
Location	Boston, Massachusetts	Columbus, Ohio	Baltimore, MD		Louisville, Kentucky	Los Angeles, California	Hershey, Pennsylvania	Norfolk, Virginia	New Haven, Connecticut
Length of program	2 year fellowship	1 year fellowship	1 year (PGY2 only)	2 year (combined with M.B.A.)	1 year (PGY2 Only)	2 year (PGY1-2)	1 year (PGY2 only)	1 year	1 year
Informatics education	Healthcare informatics, research techniques. Design, develop, test, implement, and interventions that affect medication use. Measuring change related to an intervention will give the fellow the ability to conduct independent research	Prepare pharmacists to become leaders in healthcare informatics. Emphasis will be pharmacy clinical application and technology, though time will also be spent working and leading various healthcare system informatics projects with interdisciplinary teams.	Pharmacy information governance, health system administration, leadership, issue and change management, pharmacy information systems, distribution technology, CPOE, Clinical Decision Support, clinical documentation, process/workflow re-design, information security, project management, system testing, user training, ongoing maintenance, and support.		Project Management, Database, CPOE, Bedside Bar-coding, Smart Pump Technology, Clinical Decision Support, EMAR, EHR, Wireless/Paperless Initiatives, Hardware/Software Systems Support, Teaching Opportunities, Leadership	Advanced training in emerging technologies and health information systems with an emphasis on clinical applications and impact on patient care. Education will include automation technology, informatics research and project management.	Pharmacy info systems, & automation, CPOE, CDS, clinical documentation, process re-design, DB, confidentiality, security, PM, system testing, user training, maintenance, support. Strong multidisciplinary focus. Corner partnership permits experience in commercial software design and implementation.	Database design, maintenance, and reporting, CPOE/EMAR implementation, LAN/WAN technology, clinical decision support, interfaces, applications development, vendor relations, smart pump project, wireless technology initiative	Project Management, CPOE, Bedside Bar-coding, Smart Pump Technology, Clinical Decision Support, EMAR, EHR, Wireless/Paperless Initiatives, Hardware/Software Systems Support, Teaching Opportunities
Degree/certification opportunity	Master of Science or Master of Public Health from Harvard School of Public Health	None	Certificate Optional	Yes- combined w/ M.B.A. in Medical Services Management from the Carey Business School of The Johns Hopkins University	Certified Professional in Healthcare Information and Management Systems	None	None	None	None
Accreditation	None	None	None		None	None	None	None	None
Clinical responsibilities	Occasional teaching responsibilities at Massachusetts College of Pharmacy & Health Sciences-Boston	At the discretion of fellow and director	At the discretion of the resident and preceptors	Mixed administrative, technical, and clinical rotations at the discretion of the resident and preceptors	At the discretion of the resident, informatics coordinator and clinical preceptors	At the discretion of the resident and preceptors	At the discretion of the resident and preceptors	At the discretion of resident and clinical preceptors	At the discretion of the resident and clinical preceptors
Required clinics	None	None	Tailored to the resident		None	Tailored to the resident	None	General pharmacy practice residency or equivalent practical experience	None
Informatics projects	Minimum one, flexibility based on fellow's skills and interest	Multiple projects with at least one primary/longitudinal	One major project and active project lead on multiple smaller projects		One primary longitudinal plus multiple projects based on facility priorities	One major project, and multiple small projects throughout the residency	One major project, and multiple small projects throughout the year	One major longitudinal project of publishable quality and multiple small projects throughout the year	Varies based on availability. One major residency project required; presented at Eastern States Residency Conference
Required rotations	None	None	Tailored to the resident, rotations include: Clinical Informatics, Project Management, Pharmacy Administration, Information Systems and Technology, Leadership and Strategic Planning, Operations Management, Medication Safety		Tailored to the resident: Orientation, Project Management, End User Training and Support, Research/Study Support, Intelligent Clinical Decision Support Options, Database Design/Utilization/Mining, Infrastructure, Interfaces	Tailored to the resident	Clinical Workflow, Clinical Informatics, Medication Safety, Technology (Hershey and Corner), Maintenance & Support, Decision Support, Project Management, Pharmacy Finance, Software Development	Project management, infrastructure, clinical documentation, clinical decision support, databases and applications, interfaces	None
Staffing	None, focus is on education, informatics and outcomes research	At the discretion of fellow and director	Required- Every other weekend for 6 mos, then every 3 rd weekend; 2 nd yr continuing from 1 st yr at JHH - every 3 rd weekend; 2 nd yr new to JHH - every other weekend for 3 months, then every 3 rd weekend	Required – Every other weekend for first 6 months then every 3 rd weekend for 18 months	None	Required – 4 days/month	Required – Schedule will be determined	At the discretion of resident and clinical preceptors	Every 3 rd weekend
On-call pager responsibility	None	Schedule varies	Required – schedule varies		None	Required – schedule varies	Required – schedule varies	Schedule varies	Schedule varies
Residency directors and contact information	Andrew C Seger, Pharm.D Senior Research Pharmacist Division of General Medicine & Primary Care Brigham & Women's Hospital 1620 Tremont street, 3 rd floor One Brigham Circle Boston, MA 02120-1613 Phone: 617-732-5500 x33063 Email: aseger@partners.org http://www.brighamandwomens.org/primarycare/PDF/PharmacyFellowship.pdf	Beth Prier, PharmD, MS Assistant Director, Pharmacy Informatics The Ohio State University Medical Center 410 West 10 th Avenue 368 Doan Hall Columbus, Ohio 43210 Phone: 614-293-8470 Email: beth.prier@osumc.edu	Daniel M. Ashby, M.S., FASHP Director of Pharmacy Carla Gill, MBA, RPh. Associate Director, Med Use Informatics & Central Pharmacy Services Brendan Reichert, M.S., RPh. Assistant Director- Med Use Informatics Brain Pinto, MBA, PharmD. Assistant Director- Clinical Informatics and Medication Use Policy The Johns Hopkins Hospital 600 North Wolfe St / Carnegie 180 Baltimore, MD 21287-6180 Phone: 410-955-7028 email: breiche2@jhmi.edu http://www.hopkinsmedicine.org/pharmacy/		Amey C. Hugg, R.Ph., CPHIMS Pharmacy Informatics Coordinator 535 South Hancock Street Louisville, KY 40202 Phone: 502-562-3409 Email: amevhu@ulh.org http://www.uoflhealthcare.org/NursesPharmacistsandHealthProfessionals/PharmacyDepartment/PGY2InformaticsSpecialtyResidency/tabid/534/Default.aspx	Vipul Patel, Pharm.D. Manager - Pharmacy Informatics and Specialty Pharmacy areas Cedars-Sinai Medical Center 8700 Beverly Blvd Suite A-903 Los Angeles, CA 90048 VM: 310-423-6528 Fax: 310-423-0412 Email: Vipul.patel@cshs.org	Dwayne J. Gallagher, Pharm.D. Pharmacy Informatics Specialist Penn State Milton S. Hershey Medical Center Academic Support Building 600 Centerview Drive (Mail Code A310) Hershey, PA 17033-0855 VM: 717-531-7296 Fax: 717-531-6162 Email: dgallagher@psu.edu http://www.pennstatehershey.org/web/pharmacy/home/education/residency/information	Michelle V. Bell, Pharm.D Pharmacy Informatics Specialty Residency Coordinator eCare Project Manager Sentara HealthCare 120 Corporate Boulevard Blding 400 Norfolk, VA 23502 Phone: 757-747-4635 Email: mvbell@sentara.com http://www.sentara.com/Employment/Pharmacy/Pages/pharmacy_informatics.aspx	Nilesh Amin, Pharm.D. Residency Director Email : Nilesh.Amin@vnhh.org Phone: 203-688-8673 Yale-New Haven Hospital 55 Park St New Haven, CT 06510 Marjorie Lazzare, Pharm.D. Pharmacy Informatics Specialty Residency Coordinator Email : Marjorie.Lazzare@vnhh.org