



# CLINICAL PHARMACIST FELLOWSHIP IN DRUG INFORMATION

2021-2023 PROGRAM BROCHURE

## PURPOSE

The two-year post-doctoral Clinical Pharmacist Fellowship in Drug Information is designed to provide fellows with an intensive program focused in drug information, evidence-based practice, toxicology, teaching and research. It is the goal of the program to equip fellows to serve as clinical pharmacists in a toxicology setting, university or college faculty, drug information specialists, medical science liaisons or medical writers.

*On behalf of Belmont University College of Pharmacy and Aegis Sciences Corporation, we would like to thank prospective fellows for their interest in our program.*



CHRISTY HOUSTON FOUNDATION  
DRUG INFORMATION CENTER

**BELMONT**  
UNIVERSITY





## OBJECTIVES AND RESPONSIBILITIES

### BELMONT

Belmont University consists of approximately 8,400 students from across the United States and abroad. Committed to being a leader among teaching universities, Belmont brings together the best of liberal arts and professional education in a Christian community of learning and service. The purpose of the academic portion of the fellowship program is to provide fellows with exposure to academia as well as the functions and responsibilities of an academic-based drug information practice. The academia experience includes providing didactic and experiential training to Belmont University College of Pharmacy students. In addition, fellows will participate in the functions and responsibilities of a drug information specialist within the Christy Houston Foundation Drug Information Center.

- Be familiar with drug information resources and appropriately utilize these resources
- Conduct thorough literature searches and critically evaluate primary literature
- Clearly and accurately respond to drug information requests while incorporating requestor and patient-specific factors
- Provide experiential teaching and supervision for pharmacy students completing Advance Pharmacy Practice Experiences in the drug information center
- Effectively deliver didactic instruction to pharmacy students at Belmont University
- Demonstrate strong writing and editing skills
- Participate in departmental duties corresponding to a faculty appointment

### AEGIS

Founded in 1990, Aegis Sciences Corporation is a laboratory sciences company specializing in healthcare services that provide science-driven testing and consulting for clients, such as professional and amateur sports organizations, leading college and university athletic programs, healthcare professionals, Fortune 500 companies, and government agencies throughout the United States. The Aegis experiences will be designed and structured to fully integrate the fellows into the daily functions and responsibilities of the Clinical Pharmacist team. This component of the fellowship program will allow the fellows to expand their clinical pharmacy knowledge and become proficient in medication compliance testing and interpretation for a variety of healthcare fields, including behavioral health, cardiology and pain management. The program will strengthen their research, writing, presentation and drug information skills, and the fellows will develop strong interpersonal and interdisciplinary communication skills while working in a corporate environment.

- Cultivate personal and professional development
- Serve as a preceptor for pharmacy students
- Prepare educational materials
- Lead sessions for Aegis University
- Present journal clubs
- Conduct research leading up to a published manuscript
- Assist the Research and Development (R&D) team
- Assist healthcare providers with clinical toxicology-related questions
- Provide educational training for scientists, sales team and healthcare providers
- Coordinate and lead large scale projects to develop project management skills
- Additional opportunities will be offered based on the fellows' skills, interests and status of the opportunities during the training period
- Audit portions of the certifying scientist course
- Assist the Clinical Pharmacy team in teaching the toxicology elective offered at Belmont University



# PROGRAM DIRECTORS

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## GENEVIEVE LYNN (NESS) ENGLE, PHARM.D.

*Director: Belmont University College of Pharmacy*



*Dr. Genevieve Lynn (Ness) Engle graduated from the University of the Sciences in Philadelphia, PA where she received her Doctor of Pharmacy in May 2011. Dr. Engle completed the Regulatory Pharmaceutical Fellowship with a focus in Drug Information with rotations at Purdue University, Eli Lilly and Company, and the Food and Drug Administration (FDA).*

*Dr. Engle joined the faculty at the Belmont University College of Pharmacy (BUCOP) in August of 2013 as the Associate Director of the Christy Houston Foundation Drug Information Center. She became Director of the center in June 2014.*

*Dr. Engle teaches the "Introduction to Drug Information and Informatics" and "Biomedical Literature for Pharmacy" courses within the curriculum. She also precepts fourth year pharmacy students on an elective drug information rotation within the Drug Information Center.*

*Dr. (Ness) Engle has been published in American Journal of Pharmaceutical Education, Journal of the American Pharmacists Association, Annals of Pharmacotherapy, and Innovations in Pharmacy. Dr. (Ness) Engle has also co-authored two guideline publications for the Agency for Healthcare Research and Quality (AHRQ). Dr. Engle's research interests include: drug information, professionalism, team-based learning, classroom technology, and qualitative analysis.*

## ANDREW HOLT, PHARM.D.

*Director: Aegis Sciences Corporation*



*Dr. Andrew Holt completed his pre-professional curriculum at the University of Memphis and received his Doctor of Pharmacy degree from the University of Tennessee Health Science Center and holds licenses in Tennessee, Arkansas, and Mississippi. Before joining Aegis, Dr. Holt worked for the Tennessee Board of Pharmacy as Executive Director and was Director of Tennessee's Prescription Monitoring Program. He also has experience in both nuclear medicine and community pharmacy, with certifications in immunization and medication therapy management. Dr. Holt is an assistant professor for the Department of Clinical Pharmacy and Translational Science at the University of Tennessee College of Pharmacy and serves as a preceptor for six colleges of pharmacy. He holds memberships in the Tennessee Pharmacists Association, Tennessee Pain Society and Academy of Managed Care Pharmacy. He is also a member of the Tennessee Department of Health's Chronic Pain Treatment Guideline Committee.*

# CURRENT FELLOWS

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## JOHN N. MANENO, PHARM.D.

*PGY2 Clinical Pharmacist Fellow in Drug Information*

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*Dr. Maneno completed his undergraduate studies in Biology at Texas Tech University in Lubbock, Texas in 2015 and his Doctor of Pharmacy at Lake Erie College of Osteopathic Medicine in Bradenton, Florida in 2019. As a student pharmacist, he completed an Advanced Pharmacy Practice Experience at the Miami Veterans Affairs hospital where he contributed research in Infectious Disease entitled "Implementing Antimicrobial Stewardship for Outpatient Parental Antimicrobial Therapy through Development of an Interdisciplinary Workgroup."*

*During his first fellowship year, Dr. Maneno served as an instructor Biomedical Literature Evaluation and Intro to Drug Information and Informatics courses. He also answered drug information questions regarding drug shortages, legality of compounding, and alternative therapies. Dr. Maneno published a manuscript in Annals of Pharmacotherapy regarding the use of andexanet alfa as a reversal agent for heparin during a protamine shortage.*

*Dr. Maneno is now at Aegis for his second year where he provides clinical support in drug information, medical communications, and precepting APPE students. He will also help with the research and development aspect of toxicology testing at Aegis Sciences Corporation.*



## CHELSEA DEANES, PHARM.D.

*PGY1 Clinical Pharmacist Fellow in Drug Information*

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*Dr. Deanes completed her undergraduate degree in Communications Studies at Mercer University in Macon, GA in 2009 and her Doctor of Pharmacy at the University of Tennessee Health and Sciences Center College of Pharmacy in Memphis, TN in May of 2020. She began her fellowship with Belmont University and Aegis Sciences Corporation in June of 2020. Her research interests include Pharmacogenomics and Racial and Ethnic Disparities in Healthcare. During her rotation at Belmont, Dr. Deanes will be an instructor in the "PHM6315 Biomedical Literature Evaluation for Pharmacy" and "PHM6160 Introduction to Drug Information" courses. She is also currently participating in the Belmont University Teaching Certificate Program and serves as the co-secretary of the Instructional Resources Committee for the College of Pharmacy. At the Christy Houston Drug Information Center, Dr. Deanes responds to questions regarding compounding formulations, reference material/literature searches, and availability of treatment recommendations for atypical patient cases. During her second year, Dr. Deanes will be part of the Clinical Pharmacy team at Aegis Sciences Corporation.*

# PAST FELLOWS

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## STEPHANIE MANLEY, PHARM.D.

*Assistant Professor of Pharmacy Practice*

*University of the Pacific Thomas J. Long School of Pharmacy and Health Sciences*

*2017-2019 Fellow*

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*"The Aegis/Belmont Fellowship helped me hone my skills as a drug information pharmacist, a communicator, and an educator. The skills and experiences I had at both Aegis Sciences Corporation and Belmont University have helped me build a unique skillset as a pharmacy professor."*



## JENEVA GARLAND, PHARM.D.

*HCA Healthcare Knowledge Center Research Writer*

*HCA Healthcare*

*2017-2019 Fellow*

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*"The friendships and professional relationships gained over the two-year experience are my greatest reward. The fellowship also provided me the opportunity to be instrumental in the development and launch of marketing and educational materials created by using my learned drug information skills."*

*In a competitive job market, this fellowship allotted me the opportunity to differentiate myself and open doors to roles in which I was unaware pharmacists play a part. By learning how to properly evaluate medical literature, I now provide sound scientific evidence summaries which answer questions from key decision-makers of a large healthcare organization, positively impacting patient care."*



## KATE CLAUSSEN, PHARM.D., CAHIMS

*HealthTrust Clinical Information Director, Pharmacy Services*

*HealthTrust*

*2015-2017 Fellow*

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*"I would not have known about this avenue of pharmacy had it not been for the fellowship. Thanks to the fellowship, I now have the qualifications and confidence in my drug information skills to influence hundreds of facilities through my work at HealthTrust corporate."*





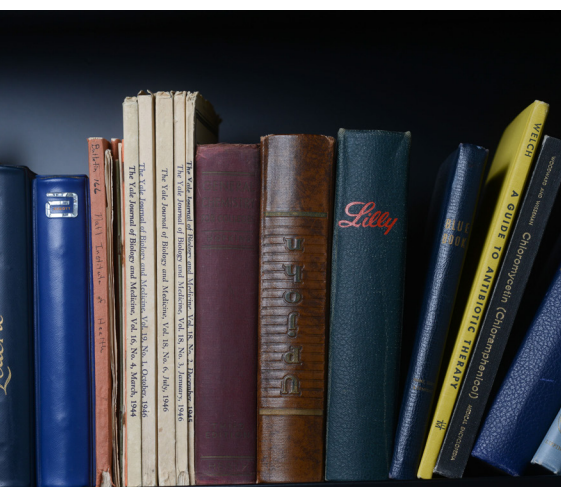
## PROGRAM OVERVIEW

Fellows will spend one full year at each location. A timeline of the program is provided below:

- Fellows will be oriented to each site at the beginning of the rotation.
- Fellows will attend the American Society of Health-Systems Pharmacists (ASHP) Midyear Clinical Meeting for recruiting and networking purposes. In addition, fellows may have the opportunity to present a poster on his/her research.
- Fellows may have the opportunity to present their research at local, regional, and national meetings including the Tennessee Society of Health-Systems Pharmacy (TSHP) annual meeting, the Mid-South Regional Pharmacy Residents Conference, and the Lilly National Conferences.
- During the Aegis rotation, fellows may have the opportunity to attend the Society of Forensic Toxicologists (SOFT) Meeting in October.

## PROGRAM SCHEDULE

<i>Date and Location</i>	<i>Experiences</i>	<i>Longitudinal Projects*</i>
June 2021–May 2022, Belmont University	<ul style="list-style-type: none"> <li>• Respond to drug information questions</li> <li>• Precept students</li> <li>• Attend ASHP Midyear</li> <li>• Recruitment</li> <li>• Assist with a fall &amp; a spring course</li> <li>• Member of Instructional Resources &amp; Technology Committee</li> </ul>	<ul style="list-style-type: none"> <li>• Research project</li> <li>• Teaching certificate program</li> </ul>
June 2022–May 2023, Aegis	<ul style="list-style-type: none"> <li>• Respond to drug information questions</li> <li>• Precept students</li> <li>• Attend ASHP Midyear</li> <li>• Aegis projects</li> </ul>	<ul style="list-style-type: none"> <li>• Research project</li> </ul> <p><i>*Longitudinal research projects to be determined by fellow and site preceptors</i></p>



## FELLOWSHIP BENEFITS

- Competitive stipend
- Reimbursement for professional travel expenses
- Enrollment in Belmont University's Teaching Certificate Program
- Belmont University health benefits package
- Vacation and University holidays





Academia | Drug Information | Toxicology

## CLINICAL PHARMACIST FELLOWSHIP IN DRUG INFORMATION

Delivering evidence-based, clinically actionable information related to medication compliance, substance abuse, and drug-drug interactions to healthcare specialists, sports organizations, and university athletic programs



### APPLICATION PROCESS

Recruitment for the 2021–2023 fellowship years will begin in the Fall of 2020, with the new fellow starting June 2021. Preliminary interviews will be conducted through Personnel Placement Service (PPS) at the ASHP Midyear Clinical Meeting in December. Participation in PPS is preferred but not required. A timeline is provided below:

- December 3, 2020 at midnight: Applications due
- December 6–8, 2020: PPS (preliminary) interviews
- December 18, 2020: On-site interviews
  - On-site interviews will take place at Aegis Sciences Corporation and Belmont University College of Pharmacy

ALL application materials must be submitted online at [jobs.belmont.edu](https://jobs.belmont.edu) by midnight on December 3, 2020. Search “Clinical Pharmacist Fellow in Drug Information” at [jobs.belmont.edu](https://jobs.belmont.edu).

### APPLICATION MATERIALS:

1. Curriculum Vitae
2. Letter of Intent
3. Response to Belmont University Mission, Vision and Values
4. Contact information for three references including email and phone number
5. Official Transcripts (electronic copies accepted; unofficial transcripts should be used as placeholders)

### ELIGIBILITY CRITERIA:

- Graduation from an ACPE accredited college of pharmacy prior to the start of the fellowship term
- A citizen of the United States
- Excellent oral and written communication skills, ethics, and professionalism
- Be eligible for pharmacist licensure in the state of Tennessee
- Belmont University seeks a person of Christian faith and commitment to the mission of the University

### INTERESTED APPLICANTS:

Contact: [clinicalpharmaegisfellows@gmail.com](mailto:clinicalpharmaegisfellows@gmail.com)  
Visit: [belmont.edu/pharmacy/academics/fellowships](https://belmont.edu/pharmacy/academics/fellowships)