

# WHAT IS PHARMACEUTICS?

Pharmaceutics is a multidisciplinary applied science concerned with delivering and maintaining appropriate drug concentrations at target sites in the body. VCU Pharmaceutics has maintained a nationally ranked, research-intensive graduate Ph.D. program in drug delivery and development for more than 30 years.

## JOIN THE PROGRAM!

Students with master's or bachelor's degrees in pharmacy, chemistry, biology, engineering and other relevant majors are encouraged to apply.

### Common core

Graduate students complete a common core including statistics, physical pharmacy, biopharmaceutics, drug metabolism, pharmacokinetics, pharmaceutical analysis and seminars in drug development.

### Specialization

On completion of the common core, students begin advanced coursework and research training in an area of concentration in the department with nationally and internationally recognized faculty experts and scientists and state-of-the-art instrumentation.

### Hands-on experience

Ph.D. students take part in research presentations/publications, receive awards or scholarships, and participate in teaching and professional/community activities.

### Funding

VCU Pharmaceutics offers competitive funding for Ph.D. students including:

- Funding for tuition and fees
- Stipends in the form of teaching assistantships
- School-funded competitive Ph.D. program assistantships available

## RESEARCH AREAS:

- Aerosol drug delivery
- Biopharmaceutical analysis
- Center for Biomarker Research & Precision Medicine
- Drug transporters
- Nanomedicine
- Ocular drug delivery
- Pharmaceutical compounding
- Pharmaceutical engineering
- Pharmacokinetics & pharmacodynamics
- Proteomics



School of Pharmacy

Welcome to the future at VCU School of Pharmacy, aligned with VCU Health's medical centers and hospitals and one of the nation's top pharmacy schools since 1898. We train pharmacy professionals in Pharm.D., Ph.D., master's and dual-degree programs.

**17<sup>th</sup>** in the nation      **15<sup>th</sup>** in NIH funding



Pharmaceutics  
School of Pharmacy

**100%** Job placement after graduation       Competitive funding

 Cutting-edge research



### MORSE FARIA, PH.D

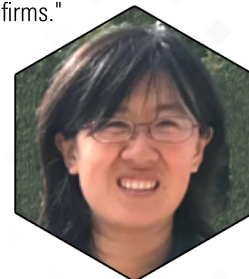
Senior research scientist at PPD  
Class of 2014

"My doctoral research allowed me to specialize in a technique that is a most sought after skill set by the pharmaceutical bioanalytical research firms."

### MENG WANG, PH.D

Bioequivalence reviewer at FDA  
Class of 2015

"I have worked at three different offices at FDA over the years. Thanks to the courses I learned in the school which are really helpful for me to adapt to the new environment and found what I want to do in the future. Therefore, I would highly recommend the students to cherish the study time in the school and learn as much as possible."



### JESSICCA REGE, PH.D


Chief development officer at Oncologie  
Class of 2005



"Of all the possible Ph.D. programs, and professional programs (MD, Pharm.D.), I saw VCU Pharmaceutics as one of the only programs that has direct application and training that allows you to enter the job market of pharmaceutical industry."

## CONTACT US:

Matt Halquist, Ph.D.  
halquistms@vcu.edu  
804-827-2078

Masahiro Sakagami, Ph.D.  
msakagam@vcu.edu  
804-828-2014

 410 North 12th Street, Suite 450  
Richmond, VA 23298

 [pharmacy.vcu.edu/pharmaceutics](http://pharmacy.vcu.edu/pharmaceutics)  
 VCUdepartmentOfPharmaceutics