

# PHARMACEUTICAL SCIENCES: APPLIED DRUG DEVELOPMENT, MS

This is a named option in the Pharmaceutical Sciences MS (<https://guide.wisc.edu/graduate/pharmacy-school-wide/pharmaceutical-sciences-ms/>).

Are you a STEM major who is interested in a career in the biopharmaceutical industry? The Division of Pharmaceutical Sciences (<https://pharmacy.wisc.edu/psd/>) at the School of Pharmacy offers the Master of Science (MS) in Pharmaceutical Sciences degree named option "Applied Drug Development." The program provides a rigorous background in a range of disciplines that are critical to the success of the next generation of pharmaceutical scientists. The program's applied training, completed either at an accelerated one-year pace or at a slower two- to three-year pace, combines relevant aspects of drug development with hands-on projects and applied field work.

**Science:** The pharmaceutical sciences are emphasized in courses that cover literature comprehension, biostatistics, pharmacokinetics and pharmacodynamics, pharmacology and instrumentation methods.

**Pharmaceutical Industry:** Industry-specific content is covered in courses that describe regulatory practice, the drug development process, working in a regulated environment (GxP), and pharmaceutical economics and management.

**Project-Based Internship:** This four-credit course provides the opportunity for students to utilize all the components of the program as they work in a relevant internship position or complete a program-related project at their current place of employment (if already working in the pharmaceutical industry).

This degree was crafted with extensive input from the biopharmaceutical industry. The faculty are a mix of experts from industry and academia. This program may be completed in one calendar year (September–August) or at a slower pace.

The Pharmaceutical Sciences Graduate Program has educated generations of scientists for challenging positions in industry, academia, and government. The faculty for the MS Applied Drug Development consists of experts in industry and academia affiliated with the School of Pharmacy. The Applied Drug Development faculty list is available on the School of Pharmacy website (<https://pharmacy.wisc.edu/academics/applied-drug-development/faculty-staff/>).