

2023 Summer Internship

Dr. Guohua An's PK/PD laboratory in the College of Pharmacy at University of Iowa has two internship positions in summer 2023. This 8-week summer internship will **start on June 5, 2023 and end on July 28, 2023, with a total stipend of \$4800 for each position**. Different from many other countries (e.g. China, India, Jordan) which have pharmaceuticals major for undergraduate study, there are few schools in USA offering such major. As a result, most undergraduate students are not familiar with the graduate programs in pharmaceutical sciences. The aim of this internship is to offer opportunity to undergraduate students (who intend to enter graduate school in the future) to better understand the area of pharmaceutical sciences, an amazing field which provides graduates wonderful career paths (graduates from our program are highly sought by pharmaceutical industry and the FDA). Dr. An's laboratory focuses on pharmacokinetics (PK), pharmacodynamic (PD), clinical pharmacology and pharmacometrics (mathematical modeling). In addition to PK/PD modeling and simulation, Dr. An also has a GLP bioanalytical lab, which is the only GLP lab in the University of Iowa. Please visit <https://pharmacy.uiowa.edu/people/guohua-an> for more detailed information on Dr. An's research focus. To apply, please email guohua-an@uiowa.edu

GENERAL RESPONSIBILITIES:

- During this 8-week summer internship, the students will get hands on experience on quantification of drug concentrations in human or animal plasma using LC/MS/MS, including sample preparation, LC/MS/MS method validation, clinical sample analysis. Using the obtained drug concentration data, the students will be further trained to conduct PK analysis and learn how to perform non-compartmental analysis (NCA) to get the relevant PK parameters. Prior to the PK data analysis, access to the Panopto recordings of Dr. An's basic PK course (PHAR4146) will be provided so that the students can have a fundamental understanding on PK and drug disposition.

SUPERVISION RECEIVED:

Direct supervision received from Guohua An, MD. PhD.

QUALIFICATIONS:

- Must be available to work in the lab during summer.
- Undergraduate student who finished their junior year.
- GPA ≥ 3.8 . Good at math. Has taken Calculus. Differential equation course is a plus.
- Has basic wet lab skills (e.g. good at pipetting)
- Excellent communication skill (verbal and written). Positive and respectful in working with a diverse population. Excellent attention to detail.
- Must successfully complete a criminal background check.

SALARY:

\$15 per hour (\$4800 in total)

WORK HOURS:

40 hours per week. Between, 9:00 a.m. to 5:00 p.m., Monday-Friday. Total 8 weeks (June 5- July 28, 2023)

This description is intended to indicate the kinds of tasks and levels of work difficulty that will be required of positions that will be given this title and shall not be construed as declaring what the specific duties and responsibilities of any particular position shall be. It is not intended to limit or in any way modify the right of any supervisor to assign, direct, and control the work of employees under his or her supervision. The use of a particular expression or illustration describing duties shall not be held to exclude other duties not mentioned that are of similar kind or level of difficulty.