Cornell College

Dimensions is currently recruiting for a summer 2016 internship in the Division of Renal Diseases and Hypertension at the Anschutz Medical Campus at the University of Colorado. The internship is open to students in all majors, but is designed for a student interested in biomedical research and healthcare.

Prerequisites:

- Applicants must demonstrate basic laboratory skills, including the ability to work well with their hands and use a pipette.
- Applicants must have successfully completed BIO 141 (Foundations: Cellular Biology) and BIO 142 (Foundations: Organismal Biology).

Please contact the Faculty Director of Dimensions (Jai Shanata) if you have any questions about the internship or application process. Internship and application details appear below.

600 First Street SW
Mount Vernon, IA 52314-1098
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Employer	Division of Renal Diseases and Hypertension at the Anschutz Medical Campus at the University of Colorado
Job Title	Research Intern
Description	This internship stems from collaboration with Emily Decker, M.S., a 2007 Cornell graduate in Kinesiology and Exercise Science. Emily works as Professional Research Assistant at the University of Colorado Denver. Emily will assist with supervision of the Cornell intern. One student will conduct research alongside Assistant Professor MyPhuong Le. Another intern will conduct research alongside postdoctoral fellow Leah Villegas. The research in the Le and Villegas labs involves developing plant-derived therapeutics targeting molecular pathways that play an important role in the pathophysiology of sugar metabolism, metabolic syndrome, pulmonary hypertension, cardiovascular disease, and lung cancer. Their laboratories have state-of-the-art equipment and optimized methods to conduct studies in bioassay-guided plant extractions, in vitro validation of effective extracts/compounds, and in vivo validation in preclinical pharmacokinetic and pharmacodynamic animal models. The labs also incorporate pharmaceutical biotechnology techniques for targeted delivery of the therapeutics to the vasculature of specific diseased tissues. The student may be involved with: plant extractions and fractionation using flash chromatography, identification of bioactive extracts/fractions using enzymatic and cell culture assays, preparation of liposome delivery vehicles, or use of molecular biology techniques such as western blots, pcr, and immunohistochemistry to analyze therapeutic distribution and efficacy in different tissues.
Application	Submit a resume, one-page personal statement describing motivation and qualifications for the internship, and an unofficial Cornell transcript to the Associate Director of Dimensions. You must also submit the name of a Cornell natural science faculty member who can attest to your laboratory bench skills. *It is advised that you work with the Writing Studio before submitting your personal statement. Please make an appointment with the Career and Civic Engagement Center to receive feedback on your resume before submitting.*
Application Deadline	Friday, March 18th
Location	Aurora, Colorado
Compensation	Dimensions will provide a *$2,000* expense allowance to assist with food, housing, and transportation expenses. The full amount will be provided in advance of the placement. Dimensions can only provide funding support for credit-bearing internships. As such, the student selected for this placement will need to enroll in an internship course and identify a Cornell faculty sponsor for the internship. These arrangements can be made <u>after</u> the student is chosen for the position.
Housing	Housing will be arranged by the intern. Previous Cornell College interns have secured housing at Campus Village apartments after accepting the internship.
Duration	June 1st-August 8th (Date range is flexible pending dates of student's apartment lease.)

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Contact Information	Jai Shanata, PhD Faculty Director of Dimensions, Assistant Professor of Chemistry Dimensions: The Center for the Science and Culture of Healthcare 319-895-4842 jshanata@cornellcollege.edu 316A West Science