



INTERNSHIP PROGRAM EMPLOYER INFORMATION

Internships are important to both students and employers. It allows the student to receive hands-on and real-world experience in a controlled environment. It gives employers an opportunity to host legitimate work related to the student's major while gaining possible employees once graduated.

INDUSTRIAL LIAISON & INTERNSHIP COORDINATOR

Paige N. Spear
1906 College Heights Blvd.,
COHH 2111
Bowling Green, KY 42101
Phone: (270) 745-4695
Fax: (270) 745-6471

Email:
paige.spear@wku.edu
www.wku.edu/ogden/internships

DEPARTMENTS & AREAS OF FOCUS

AGRICULTURE

ARCHITECTURAL AND MANUFACTURING SCIENCE

BIOLOGY

CHEMISTRY

COMPUTER SCIENCES

ENGINEERING

GEOGRAPHY AND GEOLOGY

MATHEMATICS

PHYSICS AND ASTRONOMY

PSYCHOLOGICAL SCIENCES

AGRICULTURE

The mission of the Agriculture Department at WKU is to prepare students for careers in Agriculture and the Food industries via teaching, applied research and outreach. Our University Farm is located a few miles south of the main campus on HWY 31W. The Farm is 810 acres which includes a Grade A Dairy, a classroom-mechanics laboratory facility, horticulture facilities, a beef handling facility, university beef and horse herds, and crop acreage. The farm serves as a laboratory to deliver "hands-on" educational experiences for our students. The L.D. Brown Agricultural Exposition Center, also located on the Farm, serves as classroom space, as well as a hub for community related agricultural activities. The Expo provides a 315 seat sales arena and a 2,075 seat show arena.

AREAS OF FOCUS

- a. Agriculture
- i. Agribusiness
- ii. Agricultural Education
- iii. Agronomy
- v. Animal Science
- vi. Horticulture
- vii. Turf and Golf Course Management
- viii. General Agriculture
- ix. Floral Design

ARCHITECTURAL AND MANUFACTURING SCIENCES

Founded in 1920, the Department has maintained a distinguished history preparing students for leadership positions in business, industry, and education. Programs of study in the department are designed to prepare professionals in architecture, computer information technology, construction management, mechanical engineering technology, technology management and industrial education. Students graduate with a strong technical background in their discipline and have been engaged in practical work experience. Our department maintains a professional atmosphere where faculty members care about the education and success of all students. We look forward to meeting with you as you consider an education in architectural and manufacturing sciences here at Western Kentucky University.

AREAS OF FOCUS

- a. Architectural Science
- b. Computer Information Technology
- c. Construction Management
- d. Manufacturing Engineering Technology
- e. Technology Management
- f. Industrial Education
- g. Vocational/Industrial and Tech Teacher Education

BIOLOGY

Through hands-on, inquiry-based laboratories, class discussions, research, and study abroad opportunities, students experience a transformative undergraduate science education in the Department of Biology at WKU. From Kentucky to California, and Alaska to Africa, field research opportunities abound. Laboratory studies include investigations on cancer, hearing loss, nanotechnology, and population genetics. Undergraduate students may enter our JUMP program to obtain a BS and MS in five years. We have a quality graduate program with thesis and non-thesis options. Through courses, research, student club involvement, and internships, our students are well-prepared for acceptance into professional programs, graduate school, or entering the work force. The immersive learning opportunities afforded a WKU Biology major provides students with lifelong value as they pursue a career in the biological sciences or health care.

AREAS OF FOCUS

- a. Biology
- c. Biochemistry
- d. Medical Lab Science



CHEMISTRY

WKU Chemistry provides an amazing array of educational and professional opportunities for our students. Our department is home to a growing number of vibrant and enthusiastic researchers who are dedicated to their students in the both the classroom *and* in the research lab. Active research areas in the department include energy conversion materials, novel analytical extractions, protein engineering for DNA detection, potential energy surface modelling, laser spectroscopy for environmental applications, organic nanomaterials for energy harvesting, platinum anti-cancer chemistry, metal-organic frameworks, and aerobic oxidation catalysis. Our faculty have garnered funding support for their research from NASA, NIH, NSF, USDA, and a variety of other sources. With over 200 undergraduate chemistry and biochemistry majors and over 25 active Master's students, the department is constantly buzzing with actively engaged students who are excited about what they do.

AREAS OF FOCUS

- a. Chemistry
- c. Biochemistry

COMPUTER SCIENCE

Computer science is one of the most exciting and rapidly developing of all disciplines. There is the fun stuff, like software used in games and film animation. Then there is the serious side, like the need to protect important information transmitted over public networks. Between these lie a vast array of professional opportunities. Nearly every organization, from the largest corporation to the smallest non-profit, needs people to support its computing infrastructure. There are many variations in co-op and entry-level positions. Beyond these lie numerous career opportunities, some with a technical or academic flavor, and others more managerial. Computer science is not always easy. It requires an attention to detail, and a willingness to learn and continue to learn on your own. But the results at the end tend to be well-paid positions with pleasant working conditions. And any labor survey is likely to show computer science-related positions as among the fastest growing areas of employment over the next decade.

AREAS OF FOCUS

- a. Systems/ Scientific Applications

ENGINEERING

Engineers turn dreams into reality. Engineering is the process of designing solutions to real world problems using mathematical and scientific principles. It merges creative thinking with analytical skills to create systems and processes such as automobiles, buildings, bridges, computers, electrical systems, manufacturing processes, and software. Engineering is a primary difference between our modern world and primitive societies. The engineering programs at Western Kentucky University are dedicated to teaching the practice of engineering to undergraduate students in a project-based environment. Beginning with the first freshman class and progressing through the last senior class, engineering students at WKU engage in the practice of engineering under the instruction and guidance of degreed, practicing engineers. Engineering at WKU differs from most other institutions because its faculty is dedicated exclusively to undergraduate engineering education and to engaging students in the practice of engineering without the requirement of supervising graduate research. Many studies have shown that the educational methodologies employed by engineering faculty at WKU are not only the most enjoyable and interesting for students; they are also a more effective way to learn engineering.

AREAS OF FOCUS

- a. Civil
- b. Electrical
- c. Mechanical

GEOGRAPHY AND GEOLOGY

The Department of Geography and Geology strives to provide outstanding geoscience programs, with broad international connections, to meet the challenges of the Anthropocene (Human Geo-Environmental Change). We aim to develop exceptional undergraduates and graduates in our major programs and in general education courses, to engage students in critical thinking and meaningful problem solving, and to encourage life-long learning. We aim to enhance the reputation of the Department and its constituencies through meaningful research, community engagement, and workforce development. The Department's vision statement supports the vision of Ogden College of Science and Engineering, which aspires to build a community of creative and critical thinkers, with local to global impact

AREAS OF FOCUS

- a. Geography and Environmental Sciences
- b. B.A. Geology
- c. Meteorology



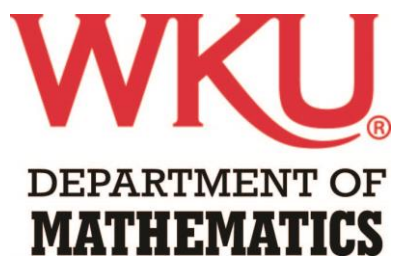
Department of Geography and Geology
GEOGRAPHY GEOLOGY METEOROLOGY GIS

MATHEMATICS

Departmental curricular options offer both graduate and undergraduate degrees in Mathematics. Our programs emphasize sound instruction, abundant study support, and a fertile learning environment geared to engage inquiry, and to enhance student achievement and success in learning and applying mathematics.

AREAS OF FOCUS

- a. Mathematics
- c. Teaching Certifiable Secondary
- d. Teaching Certifiable Middle
- e. Mathematical Economics



PHYSICS AND ASTRONOMY

WKU Physics majors are competent in instrument control software such as Labview, graphical analysis packages such as Igor Pro, word processing and data management software such as MS Word, Latex, Microsoft Excel. They may also have experience with Mathematica, image processing software such as the Interactive Data Language (IDL) and/or sophisticated modeling software such as COMSOL Multiphysics Modeling Software. They have basic to advanced technical writing skills, and are comfortable with oral expression of ideas. Physics students who attend WKU are skilled in: working in teams, working with and understanding instrumentation, problem solving and critical thinking, proficiency with hardware and software, communicating complex ideas, analysis and quantitative thinking, and conducting research.

AREAS OF FOCUS

- a. Physics
- b. Middle School Science



PSYCHOLOGICAL SCIENCES

Students who major in Psychological Science develop many skills that help them in their future careers. Because psychology is the science of behavior, psychological science students learn a great deal about working effectively with other people, but they also learn to think logically and rationally. Some careers in psychology require advanced degrees. An important step towards getting an advanced degree is building a strong, broad knowledge of psychology. If you look at the content covered in GRE Psychology subject test, you will see that WKU's BS in Psychological Science will give students the kind of preparation they need to succeed on the GRE. Majoring in psychological science can prepare students for graduate school, but these skills can also help them succeed in the workforce. Understanding how people typically behave and the factors that influence behavior are an asset in most jobs. Other skills that undergraduate students in Psychological Science develop are critical thinking skills, working effectively in diverse organizations, and using and interpreting data.

AREAS OF FOCUS

- a. Psychological Sciences



INTERNSHIP PROGRAM

IMPORANT INFO

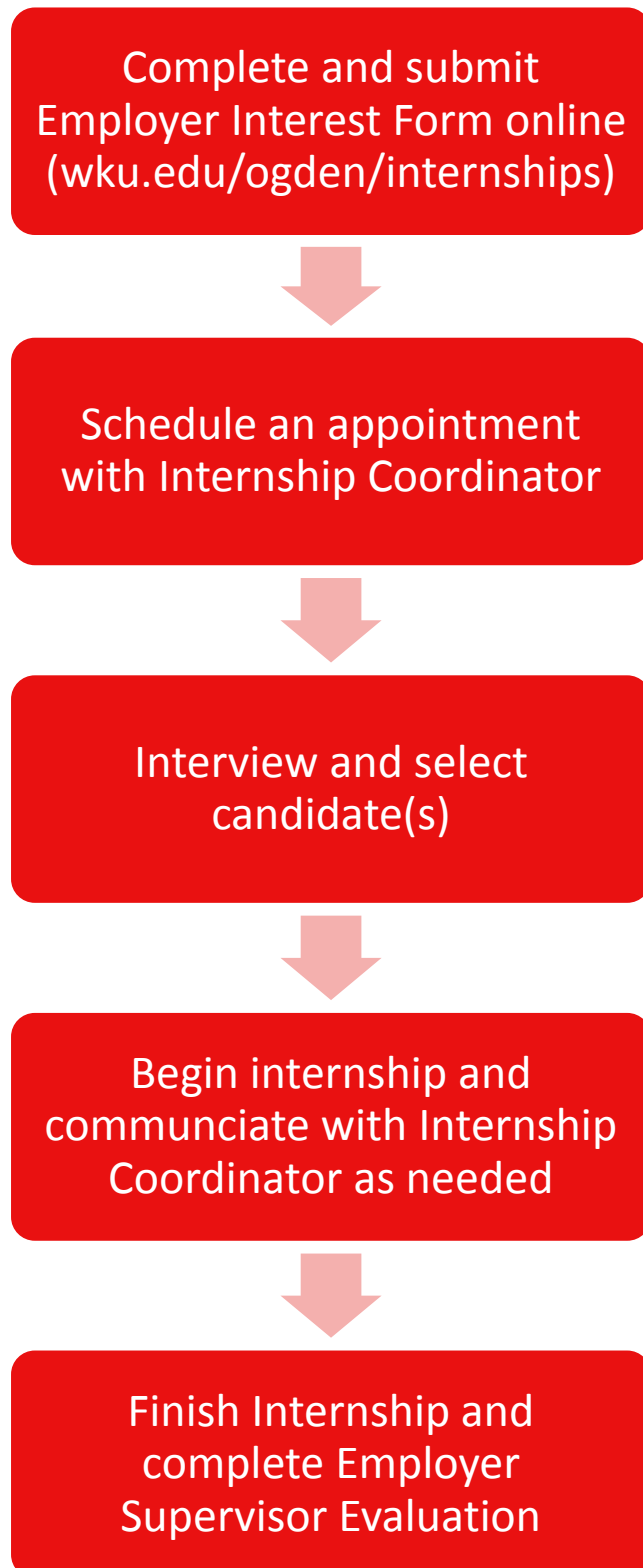
Suggested Internship Registration Dates:

- Fall Internship Recruitment: May 1- June 15
- Spring Internship Recruitment: October 1- November 15
- Summer Internship Recruitment: February 1- March 15

Why OCSE is an Important Partner

- Internship postings on Career Link
- Internship Coordinator meets with students regularly regarding their career interests and encourages applying for internships
- OCSE students are alerted through email, faculty, and social media when every internship is posted
- Employer receives applicant resumes and decides which candidate to interview
- Employer determines time, date, and location of interview
- The Internship Coordinator coordinates most of process for you

INTERNSHIP PROGRAM PROCESS



INTERNSHIP PROGRAM

YOU'RE INTERESTED, WHAT'S NEXT?

If you are interested in participating in our Internship Program, becoming a member of the Industrial Partnership Program, or know of any businesses who are interested please:

- Go to www.wku.edu/ogdeninternships and complete an Employer Interest Form
- Call Paige N. Spear, the Industrial Liaison and Internship Coordinator, at (270) 745-6495
- Email at paige.spear@wku.edu, subject: Internship Program Interest

After, Ms. Spear will be in contact with you to discuss things further. We look forward to working with you and your outstanding company to ensure the students of Ogden College of Science and Engineering get a quality internship full of exceptional learning experiences!