



SEARCH PROFILE

ASSISTANT/ASSOCIATE/FULL PROFESSOR

Tenure Track

Digital and Precision Agriculture

CONTENTS

Position Vacancy Announcement	2
Overview of the LSU AgCenter	4
Overview of the LSU College of Agriculture	5
LSU System and Flagship Campus	6




POSITION VACANCY ANNOUNCEMENT

The Louisiana State University Agricultural Center (LSU AgCenter) FOODii is seeking highly motivated and creative individuals for 3 full-time, 12-month, tenure-track positions in Digital Agriculture at the Assistant, Associate or full Professor rank. These positions will have a majority research appointment, with a smaller teaching appointment in the LSU College of Agriculture. In addition, a small extension appointment is possible where appropriate. We are seeking energetic, innovative, and collaborative scientists interested in using modeling, sensors, machine learning, and related tools to address critical challenges in crop production, crop breeding, and pest management. Candidates with a range of research interests and disciplinary backgrounds will be considered, but we anticipate hiring at least one scientist in each of three areas:

- High-throughput phenotyping: develop and implement novel phenotyping methodologies for measuring agronomic traits, pest resistance, and abiotic stress tolerance.
- Crop and environmental modeling: use state-of-the-art modeling approaches to simulate crop growth, predict yields, study the impact of climate change and environmental factors on crop production, and optimize crop management practices.
- Precision agriculture: Investigate, implement, and evaluate precision agriculture techniques, including prescription fertilization, site-specific pesticide application, and variable-rate seeding.

The successful candidates will join a dynamic and interdisciplinary team of researchers committed to advancing sustainable agricultural practices and enhancing crop yields. Successful candidates will be expected to develop internationally recognized and extramurally funded research programs that incorporate training of MS and PhD students. Successful candidates will be expected to teach graduate and undergraduate courses in their areas of expertise. Translation of research results to producers and industry and extension stakeholders will involve traditional and digital communication platforms.

This cluster hiring initiative is a critical component of the LSU AgCenter's effort to expand its research and instruction capacity in the area of precision and digital agriculture. This research area is one of the primary research focal areas of the LSU AgCenter and constitutes a major component of the LSU AgCenter's larger strategic goals of research, teaching and extension. The LSU AgCenter is a statewide campus, with 10 academic campus departments, 15 research stations across the state, and 64 parish extension offices. The LSU AgCenter is one of eight campuses within the LSU system.



QUALIFICATION REQUIREMENTS: Applicant must possess a Ph.D. or equivalent degree in a discipline related to digital agriculture and a record of scholarly achievement in areas related to the position. Outstanding oral and written communication skills and excellent analytical and computational skills are needed. Candidates should possess a strong publication record in relevant research areas and the ability to secure extramural funds to support their research program.

SALARY AND BENEFITS: Salary will be commensurate with qualifications and experience. LSU has an attractive benefits package with a wide variety of benefit options. Benefits offered include retirement, multiple medical insurance options, supplemental insurances (dental, life, long-term disability, accident, vision, long-term care, etc.), Tax Saver Flexible Benefits Plan (saves tax dollars on some child care and medical expenses), university holidays (14 per year, typically includes a week off at Christmas), generous annual (vacation) and sick leave benefits, Employee Assistance Program, and possible educational leave and tuition exemption for coursework at campuses of the LSU System. Specific benefits depend on job category, percent effort and length of employment.

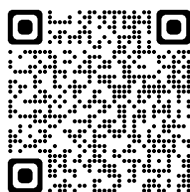
ANTICIPATED START DATE: July 1, 2024 or upon completion of the selection process

APPLICATION DEADLINE: Review of applications will begin April 1, 2024 and continue until the positions are filled.

APPLICATION PROCEDURE: Applicants should submit a package including a curriculum vitae, copies of undergraduate and graduate transcripts, and names and addresses of three persons who can be contacted for letters of reference. In addition, applicants should provide 1) a statement describing how diversity would figure into their teaching and research responsibilities and 2) a letter of application describing abilities, research and teaching interests and experience, and vision for the research and teaching components of the position.

Apply on-line at <https://lsu.wd1.myworkdayjobs.com/LSU> (or through Workday for internal applicants) by attaching the materials referenced above. Direct questions to the Search Committee Chair:

Dr. Steve Harrison, Professor
School of Plant, Environmental and Soil Sciences
Louisiana State University
Baton Rouge, LA 70803
sharrison@agcenter.lsu.edu
www.lsuagcenter.com



The LSU AgCenter and LSU provide equal opportunities in programs and employment.

OVERVIEW OF THE LSU AGCENTER

In 1971, a special committee of the LSU Board of Supervisors conducted a comprehensive management study of the LSU System and recommended its agricultural activities have an identity separate from that of the existing campuses. As a result, the LSU Board of Supervisors established the Center for Agricultural Sciences and Rural Development in August 1972. Ten years later, the board changed the name to the LSU Agricultural Center.

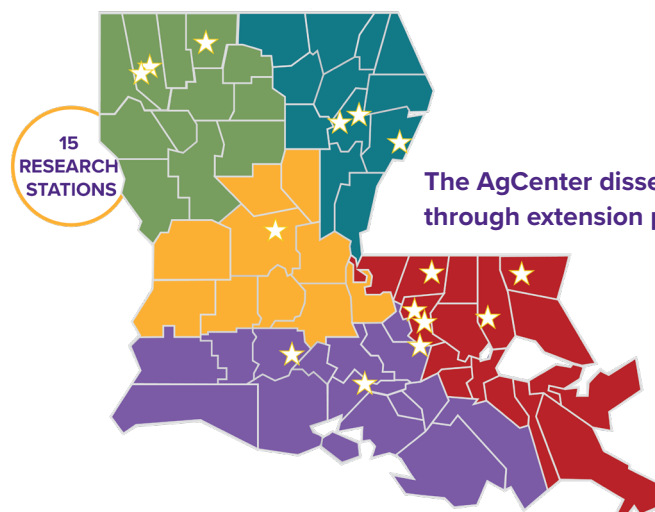
The LSU AgCenter's mission is to conduct agricultural research, extension and teaching programs that advance and maintain Louisiana's highly diverse agricultural industry and sustain Louisiana's natural resources; to provide research and educational programs in the field of nutrition; to develop Louisiana's youth and families through the 4-H program, which serves **more than 200,000 children annually**; and to make advancements that will benefit generations to come. From helping to solve the termite problem in Louisiana and addressing issues related to invasive species to finding ways to protect and improve **Louisiana's \$2.5 billion seafood industry**, the AgCenter touches the lives of every person in the state while also affecting industries that are vital to the entire nation.

The LSU AgCenter is one of eight campuses in the LSU enterprise. With offices in every parish and research stations across the state, the LSU AgCenter is committed to serving the citizens of Louisiana. That pledge includes dedication to agriculture and the vital work of providing innovation and support for the food and fiber sector while improving agriculture's valuable contributions to the state's economy. The LSU AgCenter's educational efforts span nutrition and health, food safety, backyard gardening, disaster preparedness, storm recovery, youth development, managing insects and natural threats, economic development, resource conservation and so much more. The LSU AgCenter provides individuals, families, businesses, schools, industries and local governments with valuable information aimed at improving economic conditions, general wellness and quality of life.



Agriculture serves as a backbone of Louisiana's economy.

- Agriculture's economic impact: **\$11.6 billion.**
- Value-added impact: **\$32 billion.**
- Every dollar of agriculture income yields a **\$3 return** to the local economy.



- **Five** regions
- **22** institutes and centers
- **64** parish offices
- **Hundreds** of agents, specialists and researchers

The LSU AgCenter campus supported an estimated economic output of \$282 million, \$119 million in earnings and 2,356 jobs.



OVERVIEW OF THE COLLEGE OF AGRICULTURE

For more than 100 years, the College of Agriculture has been an integral part of LSU. The college's roots date back to the first graduating class, and while the mission of the college has evolved, its commitment to agricultural production in Louisiana remains the common thread that binds the college's past and future. The present LSU campus location was built on a former sugarcane farm. Agriculture was a priority in 1922 and continues to be today as LSU stays true to its mission of creating a better life for the people of Louisiana and those across the world.

First-year students entering the College of Agriculture can choose to live on campus in the **LSU Ag Residential College**, apply for college-specific **scholarships** and apply to the **LSU Honors College**. College of Agriculture students get practical, hands-on experiences in environments that help facilitate learning. Students focusing on wildlife will go out into wetlands and those with an interest in plants or animals will get experience with gardens, crops and livestock on research farms.

DEPARTMENTS:

The College of Agriculture consists of:

- Department of Agricultural Economics and Agribusiness
- Department of Agricultural and Extension Education and Evaluation
- School of Animal Sciences
- Department of Entomology
- Department of Experimental Statistics
- School of Nutrition and Food Sciences
- School of Plant, Environmental and Soil Sciences
- Department of Plant Pathology and Crop Physiology
- School of Renewable Natural Resources
- Department of Textiles, Apparel Design and Merchandising

8

UNDERGRADUATE DEGREES

MORE THAN

40

CONCENTRATIONS

10

MS and PhD PROGRAMS



LSU SYSTEM AND FLAGSHIP CAMPUS

LSU System is a family of eight institutions and colleges in Louisiana. Collectively, these eight campuses generate **\$6.1 billion in economic impact**, educate **more than 55,000 students** and conduct **research amounting to more than \$360 million**. In addition to the main campus in Baton Rouge, the System campuses include the LSU AgCenter, LSU of Alexandria, LSU Eunice, LSU Health New Orleans, LSU Health Shreveport, Pennington Biomedical Research Center and LSU Shreveport.

LSU researchers across Louisiana are working on developing a wide range of innovations to improve quality of life by studying issues such as disease management, advanced medical treatments, obesity, coastal protection, hurricane preparedness, energy, natural resource management and agriculture, among others. Louisiana's flagship university is a land-, sea- and space-grant institution with academic programs in all areas of science, engineering, humanities, arts and social sciences.

LSU's flagship campus in Baton Rouge sits along the Mississippi River. The campus, widely considered to be one of the most beautiful in the country, is known for its Italian Renaissance-style architecture, tranquil lakes and oak trees.

- More than **2,000 acres** of lush landscaping along the Mississippi River.
- Majestic live oak trees that are valued at approximately **\$45 million**.



LSU SYSTEM MISSION AREAS



AGRICULTURE AND THE
SCHOLARSHIP FIRST
AGENDA:
PRESIDENTIAL PRIORITIES
Scan the code to read more.

