



**MISSISSIPPI STATE**  
**UNIVERSITY™**

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### **Postdoctoral Associate Position: Job description**

The Biophotonics Initiative within the Department of Animal and Dairy Sciences at Mississippi State University, Starkville, MS, USA is advertising an opportunity for a Postdoctoral Associate position to lead ongoing research projects in animal reproduction and diseases, under the supervision of Faculty advisors. The candidate will conduct field and laboratory works beyond the minimum required and will have opportunity to develop independent and to assist Faculty advisors in research activities using the tools of microbiology, molecular biology, cell biology, biochemistry and molecular imaging (with nanomaterials and gene constructs) to enhance knowledge of reproductive performance and pathogen detection in livestock.

Strong emphasis will be placed on career development, communication skills, grantsmanship, interdisciplinary and collaborative research, working with a variety of *in vitro* and *in vivo* animal model systems, and understanding the implications of basic and applied research in mitigating animal disease, improving animal health and well-being, and advancing production performance of livestock. Instruction in preparation of research papers and grant applications will be provided with the expectation of publications and grant submissions after one to two years. Access will be provided to modern research facilities equipped for quantitative and non-invasive bio-imaging, genomics, proteomics, flow cytometry, transgenic animal models and metal analysis in biological systems.

The candidate is expected to have a Ph.D. degree in Animal/Biological Sciences, Microbiology, Molecular or Cell Biology, or related Life Science disciplines. Candidates with excellent knowledge in microbiology and experience in molecular genetics of bacteria and cell culture (Eukaryotes & Prokaryotes) are highly recommended to apply. Ability to design experiments, analyze and gather data for external communications, and prepare manuscripts for publication is required. Opportunity will be given for grant support training provided by the Office of Research and Economic Development. The position will be for a one-year renewable term, with the possibility for an additional two years, contingent upon available funding.

Application is opened to U.S. citizen, noncitizen national, and permanent resident candidates and full application package (letter of application, resume, transcripts, and three letters of recommendation) should be submitted online at <https://www.jobs.msstate.edu/applicants/jsp/shared/frameset/Frameset.jsp?time=1447180938120>. Only complete submissions will be considered and interested candidates may contact Drs. Jean M Feugang ([jn181@ads.msstate.edu](mailto:jn181@ads.msstate.edu)) and/or Peter L Ryan ([pryan@provost.msstate.edu](mailto:pryan@provost.msstate.edu)) for additional information. Position is available from January 15, 2016 until it is filled.

Mississippi State University is an Equal Opportunity Employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status or any other characteristic protected by law. Please see the following link: <http://www.policies.msstate.edu/policypdfs/0302.pdf>.

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