Department: Department of Medicine, Division of Rheumatology, Immunology, and Allergy at the University of Oklahoma Health Sciences Center (OUHSC).

Description: A postdoctoral position is available in the laboratory of Dr. Matlock A Jeffries, MD. The major focus of Dr. Jeffries’s lab is understanding the ways in which environmental factors influence osteoarthritis (OA) risk by modulating epigenetic factors both locally within the joint and systemically, and whether epigenetic modifications might be used as biomarkers for human OA diagnosis and progression. Using both in vitro and in vivo models, the Postdoctoral Research Fellow will work on projects studying the epigenetic consequences of aging, obesity, and trauma to mouse OA development, as well as projects investigating the role of the microbiome on systemic inflammation in OA. The Jeffries laboratory also studies epigenetic editing, and there will be a possibility for the postdoctoral research fellow to work on in vitro epigenetic editing of OA-relevant tissues as well.

Requirements: We are seeking a highly motivated and driven individual with a background in epigenetics and/or microbiome analysis and OA, with good fundamental cell biology skills and a willingness to learn rodent microsurgical techniques as they apply to OA. Experience with cell culture, viral transduction, mouse models, and strong computing / data analysis skills are preferred. The successful candidate will hold an MD or PhD degree, be highly organized, independently capable, a team player, and have excellent communication skills.

Interested individuals should send an updated CV or NIH biosketch, a cover letter, and information for three references to Dr. Matlock Jeffries Matlock-Jeffries@ouhsc.edu