

# POST-DOCTORAL FELLOWSHIP

## Washington University, St Louis

### Epigenetic regulation in cartilage and bone

The Department of Orthopaedic Surgery at Washington University School of Medicine in St Louis, Missouri has an opening effective immediately for a post-doctoral research associate in the field of **epigenetics in skeletal biology**. The motivated individual will work on an NIH-funded study to determine the function and mechanism of non-coding RNAs (**microRNAs**) in regulating cartilage and bone development, homeostasis and repair.

Research will involve utilizing approaches to modulate miRNA expression in vitro to determine effects on skeletal progenitor cell differentiation. There will also be opportunities to elucidate miRNA function in vivo via analysis of new transgenic mouse models as well as pre-clinical animal models of osteoarthritis, heterotopic ossification or fracture repair.

You will join a multidisciplinary orthopaedic research laboratory, which is part of the Musculoskeletal Research Center (<http://www.musculoskeletalcore.wustl.edu/>). The post-doc will be based in the lab of Dr. Audrey McAlinden (<http://audreymcalinden.org>). There are excellent opportunities to interact with other cartilage/bone biologists and biomechanical engineers in the Center as well as PIs in basic science departments at Washington University specializing in epigenetics, nanoparticle technology, and other areas of interest.

In addition to receiving outstanding training, our environment also provides fantastic mentorship and career development programming and opportunities. If eligible, the post-doc will be encouraged to apply for NIH T32 or F32 training/fellowship grants and will obtain appropriate guidance during the grant writing process.

Qualifications: PhD or MD-PhD in cell/molecular biology, biochemistry, biomedical engineering, or related field. Experience or willingness to work with transgenic mice and pre-clinical mouse models is important. Expertise in RNA biology and/or bioinformatics approaches to analyze large data sets would be beneficial.

The appointment is for period of 3 years.

Qualified candidates should apply by sending a cover letter, CV and the names of two/three references via email to:  
[mcalindena@wustl.edu](mailto:mcalindena@wustl.edu)

The position is available immediately. Applications will be considered until the position is filled.

General information: <http://orthoresearch.wustl.edu> and <http://medschool.wustl.edu>

