



Postdoctoral Fellow in the Boerckel Lab University of Pennsylvania

Interested in mechanotransduction? cytoskeletal dynamics? transcription?

The Boerckel Lab (www.med.upenn.edu/orl/boerckellab/) at the University of Pennsylvania is recruiting postdocs! Our laboratory is housed in the Departments of Orthopaedic Surgery and Bioengineering and studies how mechanical cues direct cell behavior during morphogenesis, repair, and regeneration. A major focus of the lab is understanding how the transcriptional co-activators, YAP and TAZ, mediate intracellular feedback control of mechanotransduction, motility, and cell fate.

We are looking for postdoctoral fellows with backgrounds in cell or developmental biology or bioengineering to join our multidisciplinary team. NIH-funded projects are available to define the roles of YAP and TAZ in regulating mechanotransduction, motility, and cytoskeletal dynamics. Projects feature a combination of cell culture and animal modeling using transgenic mice.

See our recent papers on which these projects build here:

[Mason et al. *J Cell Biology* 2019](#)

[McDermott, Herberg, et al. *Science Translational Medicine* 2019](#)

[Kegelman et al. *J Bone Mineral Research* 2019](#)

What we offer:

- Highly collaborative and collegial environment in the McKay Orthopaedic Research Labs (<http://www.med.upenn.edu/orl>)
- Regular interactions with world-class colleagues and visiting speakers through the Center for Engineering Mechanobiology (<https://cemb.upenn.edu/>) and the Penn Center for Musculoskeletal Diseases (<https://www.med.upenn.edu/pcmd>) at Penn.
- Supportive mentorship for multi-faceted career development and opportunities tailored towards individual career goals.
- A stimulating environment with freedom to develop new research directions.
- An NIH funded position at NRSA postdoctoral stipend levels (with potential for renewal up to four additional years).
- A department located in a dynamic East-coast city with affordable cost of living.

What we're looking for:

- Enthusiasm & curiosity to chase fundamental questions in mechanobiology.
- Collaborative and collegial spirit.
- Willingness to apply for applicable postdoctoral fellowships and eagerness to take advantage of other career development opportunities.
- Interest in working with junior lab members and summer undergraduates.
- Strong verbal and written communication skills.

Start date immediately or upon mutual agreement.

Application materials (email to boerckel@pennmedicine.upenn.edu):

- Cover letter outlining relevant expertise and scientific interests
- CV & contact information for three references