

1/2/2012

**POSTDOCTORAL position in BIOMECHANICS at
The Rowland Institute at Harvard (Chris Richards, PI)**

My lab is seeking a post doc for a two year position (starting late spring, 2012) to investigate the biomechanics and muscle physiology of animal swimming. Our goal is to understand how neural control, skeletal morphology and locomotor environment (e.g. fluid vs. air) influence muscle contraction. Using swimming frogs as a model, we will use recently developed experimental tools that integrate bio-robotics with *in vitro* muscle physiology. Examples of ongoing projects include (but are not limited to) exploring how muscle function is influenced by 1) skeletal gearing, 2) fluid mechanical properties (e.g. viscosity or density), 3) elastic structures attached to the muscle or within limbs.

In addition to a competitive salary/benefits package, the post doc has access to state-of-the-art machine shop and electronics facilities on site. He/she will have the opportunity to interact and collaborate with other biomechanics labs at the nearby Harvard campus as well as be a part of the rich biomechanics community in New England.

Requirements:

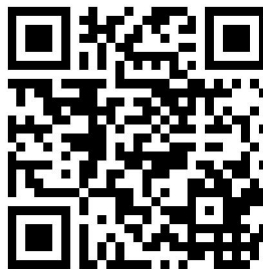
Upon hiring, applicants must have a PhD demonstrating experience in at least one of the following areas: *In vitro* muscle physiology, *in vivo* muscle techniques, biomechanics (e.g. kinematics analysis, whole-body mechanics, fluid dynamics), or robotics. Individuals with either biological or physical sciences backgrounds are welcome to apply, however the strongest candidates will have some experience working with animals either at the 'whole-animal' or 'tissue' level. Suitable candidates must be comfortable working independently and will also be asked to help mentor undergraduate student projects.

If you are interested in the position, please feel free to contact me via email.

richards@fas.harvard.edu

To apply: Please send a CV (2 page limit, including contact information for 3 references) and a summary of your dissertation research (1 page limit) to me, Chris Richards, at the email address above. Please write "RowlandPostdoc" in the subject of your email. Strong candidates will be invited for an interview at the Rowland Institute. Please check the following website for more information on work in the lab.

<http://www.rowland.org/rjf/richards/index.php>



Harvard University is an Equal Opportunity and Affirmative Action Employer. Women and minorities are especially encouraged to apply.