

Post-doctoral research fellowship: Molecular mechanics of bone

Top candidates are sought for a collaborative research project between Dr. Sandra Shefelbine (Department of Bioengineering, Imperial College London) and Dr. Markus Buehler (Department of Civil and Environmental Engineering, Massachusetts Institute of Technology). This project will use molecular modelling techniques and associated experimental methods to explore the collagen-apatite interface in bone.

Shefelbine's research group experimentally examines the structure and mechanics of bones (<http://www3.imperial.ac.uk/people/s.shefelbine>). Buehler's research group focuses on computational materials science of structural protein materials (<http://web.mit.edu/mbuehler/www/>).

Candidates will apply for the UK's Wellcome Trust- MIT Postdoctoral Fellowship, which provides four years of funding for research at the boundaries of biology, medicine, and engineering. Fellows will spend 2-3 years at MIT and the remaining time at Imperial. Eligibility: a PhD in a relevant field (engineering or biotechnology), no more than 3 years post-doctoral experience, relevant connections with European Economic Area (degree or citizenship). Previous experience with molecular modelling techniques or related techniques is recommended.

Interested candidates should send a CV and cover letter to Professors Shefelbine and Buehler (s.shefelbine@ic.ac.uk & mbuehler@mit.edu) by **15 June, 2011**. We notify the selected candidate by 18 June and work with him/her to develop the full proposal for the 1 July deadline.

More information about the fellowship can be found at:

<http://www.wellcome.ac.uk/Funding/Biomedical-science/Funding-schemes/Fellowships/International-fellowships/WTX054661.htm>

Imperial College
London



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