



Singapore-MIT Alliance for Research and Technology

SMART is a major research enterprise established by the Massachusetts Institute of Technology (MIT) in partnership with the National Research Foundation of Singapore (NRF). SMART serves as an intellectual hub for international research collaborations, not only between MIT and Singapore, but also involving researchers from the region and beyond. At SMART, we identify and carry out research on critical problems of societal importance. SMART is a magnet attracting and anchoring global research talent, while simultaneously instilling and promoting a culture of translational research and entrepreneurship in Singapore. Five interdisciplinary research groups (IRGs) have been established to date: BioSystems and Micromechanics (BioSyM), Centre for Environmental Sensing and Modeling (CENSAM), Future Urban Mobility (FM), Infectious Diseases (ID) and Low Energy Electronics Systems (LEES).

Postdoctoral Associate (Ref: IRG_BioSyM_2015_004)

BioSystems and Micromechanics Interdisciplinary Research Group

Duties and Responsibilities:

The Biosystems and Micromechanics (BioSyM) Interdisciplinary Research Group (IRG) of the MIT SMART center (<http://smart.mit.edu/>) is seeking a Postdoctoral Associate in the area of magnetic resonance spectroscopy and their application to biosensing. The successful candidate will become a part of the interdisciplinary team of SMART researchers and will carry out cutting-edge research toward developing Magnetic Resonance Relaxometry (MRR) microfluidic systems for high sensitivity, label free blood diagnostics for various diseases and/or biological studies. He/She will also carry out instrumentation design and implementation as well as close collaboration with clinical and biological researchers.

This position will primarily be based in Singapore, with the possibility of traveling to MIT (up to a few months) as part of the international collaboration.

Requirements:

The successful candidate should hold a Ph.D. degree in the area of bioengineering, biophysics, or related engineering / science departments from a reputable university. He or she should be familiar with Nuclear Magnetic Resonance (NMR) spectroscopy, or closely related technology and instrumentation. Familiarity with the field of microfluidics and bio sensing will be a plus.

Applicants must have excellent technical, organizational, and communication skills, as well as the ability to work with other members of the team.

To apply, please send your full CV/resume, cover letter and list of three references (to include reference names and contact information) to Prof Jongyoon Han – jyhan@mit.edu.sg. Please contact Prof. Jongyoon Han directly for further information on logistic/scientific issues. We regret that only shortlisted candidates will be notified.