Postdoctoral position

Multiple postdoctoral positions are available at the Department of Biomedical Engineering (BME) and the Institute for Quantitative Health Science and Engineering (IQ) at Michigan State University. The Department of BME offers a unique environment for performing state-of-the-art research with many of the top scientists in the field. The lab is transitioning from the Johns Hopkins University School of Medicine and will be operational starting September of 2017.

The research project focuses on:

1. Developing innovative technologies based on novel genes as well as protein engineering for **activating cellular pathways**, with anticipated variety of applications in both basic research and in the clinic.
2. Constructing **Synthetic Biology** circuits in prokaryotic and Mammalian (stem) cells.
3. Developing genetically encoded technologies for **high-resolution (stem) cells visualization** with Magnetic Resonance Imaging (MRI) in the fields of regenerative medicine and immunotherapy.

Candidates with a strong background in molecular biology, protein expression and purification, synthetic biology or molecular engineering, nanotechnology, nanoparticle engineering and imaging are welcome to submit applications. Experience with bioinformatics or neuroscience is an advantage.

The candidate must hold a Ph.D. or equivalent degree. Please send your application to **Assaf Gilad**, Professor of BME and Radiology, Chief of the Division of Synthetic Biology and Regenerative Medicine at the IQ MSU at gilad@msu.edu with a cover letter, CV and 3 names and contact information of references.