

POST-DOCTORAL POSITION

CONTEXT-DEPENDENCE OF SYNTHETIC BIOLOGY CIRCUITS

Del Vecchio's Lab

MIT

A post-doctoral position is available in the Department of Mechanical Engineering at MIT to study the problem of context-dependence of synthetic biology circuits. Specific focus is on causes of context-dependence such as loading of a circuit by surrounding systems. The specific target application is the development of robust biosensing/bioclasiacation circuits.

We are seeking a highly motivated and qualified individual that will perform experimental work to improve our current understanding of loading on synthetic circuits. Responsibilities include designing, fabricating, and experimentally characterizing signaling and transcriptional circuits in *E. coli* while synergistically collaborating with a PhD student in charge of the modeling and mathematical analysis of the systems under study.

Qualifications: A Ph.D. in a related field (biology, bioengineering, microbiology, molecular biology), extensive experience with DNA recombination techniques in bacteria, bacterial cell culturing, and both single cell and cell population measurements.

Start Date: September 7st 2013.

Submission instructions: Interested individuals should submit their CV, a short statement of how their background fits this project, and availability via e-mail to Domitilla Del Vecchio ddv@mit.edu.