



## POSTDOCTORAL POSITION

The Noireaux lab, at the University of Minnesota, is seeking a creative and enthusiastic postdoctoral research associate to lead a project on cell-free synthetic biology. Specifically, we use a cell-free transcription-translation (TXTL) platform to engineer biological systems across scales: bacteriophage engineering, biosynthesis pathways engineering, synthetic cell systems.

**Project Background:** cell-free systems have recently emerged as versatile platforms to construct biological systems in vitro. Cell-free systems are used to prototype gene circuits, to recapitulate the complete synthesis of phages, for biosynthesis and for the construction of synthetic cell systems. Cell-free synthetic biology is rapidly expanding its scope to many other applications such as biotechnology and medicine. The postdoctoral associate will be involved in the development of new cell-free systems for enzymatic pathway engineering, phage engineering and biomanufacturing, and for the bottom-up synthesis of synthetic cells.

The Noireaux lab provides a highly energetic and multidisciplinary research group working at the edge of cell-free TXTL systems for synthetic biology. We are looking for applicants with skills in molecular biology, cell-free gene expression, and soft matter physics.

**Noireaux lab website:** <http://www.noireauxlab.org/>

**To inquire about this position:** [noireauxlab@gmail.com](mailto:noireauxlab@gmail.com)