

## **Postdoctoral Fellow Position in Bacterial Gene Regulatory Networks**

We are excited to announce a new postdoctoral fellow position in bacterial gene regulatory dynamics in the [Reynolds lab](#). We seek candidates with experience in molecular biology, prokaryotic gene regulation, bacterial physiology, and/or quantitative modeling of gene regulatory dynamics to support our NSF-funded project entitled “Quantifying the Prevalence and Phenotypic Consequences of Transcriptional Irreversibility in Bacteria.” Our goal is to better understand when (and how often) transient transcriptional changes result in lasting differences in bacterial cell state and phenotype. This interdisciplinary project integrates quantitative experimental biology with large scale data analysis and theory. The fellow will further have the opportunity to collaborate with the Motter lab (Dept. of Physics, Northwestern University) on dynamical systems theory and model construction. While the broad themes of the work are set, there is considerable latitude to tailor project direction to candidate interests.

The fellow will receive training in high-throughput bacterial genetics, large-scale next generation sequencing data analysis, and gene regulatory network modeling. They will work closely with graduate student trainees and participate in regular team meetings with the Motter group (with occasional opportunities to travel to Chicago). Our group strives to create a rigorous yet supportive environment for doing science and advancing the careers of junior scientists. The fellow will receive extensive mentorship in developing their own independent research program, with training in scientific presentation, manuscript preparation, and grant writing. We hold regular annual meetings devoted to professional goals and career planning. There are also ample opportunities to develop teaching skills through leading departmental nanocourses and/or outreach activities in coding and data science. This position is subject to our updated departmental [postdoctoral pay plan](#); first year postdocs earn a highly competitive base salary of \$70,000 and are eligible for an additional competitive fellowship incentive of \$20,000.

A Ph.D is required and must be completed by time of employment. Candidates should have a successful track record of research, excitement to develop new scientific directions, and a capacity to work in an interdisciplinary team. To apply, please send a combined PDF file including: (1) a 2 page cover letter summarizing your research interests, accomplishments, and career ambitions, (2) your CV, and (3) the name and contact information for 2-3 references to Dr. Kimberly Reynolds ([kimberly.reynolds@utsouthwestern.edu](mailto:kimberly.reynolds@utsouthwestern.edu)). Applications will be considered on a rolling basis, the start date is flexible and can be filled as early as this fall.

Information on our postdoctoral training program, benefits, and a virtual tour can be found at <http://www.utsouthwestern.edu/postdocs>.

[Reynolds Lab \(reynolds-lab.net\)](#)  
[Kimberly Reynolds, Ph.D. - Faculty Profile - UT Southwestern](#)

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