

Postdoctoral Fellow Position in Biosynthetic Pathway and Protein Engineering

Description:

We are excited to announce a new postdoctoral fellow position as part of the newly launched [Biosynthetic Pathway Design Collaborative](#). This unique fellow opportunity is designed for early-career scientists interested in biosynthetic research at the interface of machine learning, computational simulation and large-scale experiment. Our broad goals are to establish a robust pipeline integrating AI, metabolic modeling, and experiment to generate synthetic biomedicines in heterologous hosts. The fellow's primary mentor will be [Dr. Kimberly Reynolds](#), and they will receive guidance from an interdisciplinary mentorship team including [Dr. Daehwan Kim](#) (genomics and software development), [Dr. Milo Lin](#) (protein engineering and AI), and [Dr. Scott Saunders](#) (bacterial genetics) in the [Lyda Hill Department of Bioinformatics](#). While the general expectation is that the fellow will design and perform experiments informed by collaborative AI and modeling efforts, this position offers a strong degree of independence with considerable latitude to tailor research direction to candidate interests.

Our new collaborative effort embraces team science and strives to create a rigorous yet supportive environment for developing bold new ideas 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.

Requirements:

- A Ph.D. in biochemistry, microbiology, computational biology, systems biology or related fields is required and must be completed by time of employment. Candidates should have a successful track record of research accomplishments, excitement to develop new scientific directions, and a strong capacity to work in an interdisciplinary team.
- To apply, please send a combined PDF file including the following to Dr. Kimberly Reynolds (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.
 - (1) A 2-page cover letter summarizing your research interests, accomplishments, and career ambitions
 - (2) CV
 - (3) Name and contact information for 2-3 references

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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