



## Postdoctoral Research Fellow position in Biochemistry (Epigenetics) at University of Pennsylvania

A postdoctoral research fellow position is available for highly motivated, self-directed researchers to join a new, well-funded research laboratory focused on RNA epigenetics research in the Department of Biochemistry and Biophysics at University of Pennsylvania (Penn).

The ideal candidates with strong background in chemistry, biochemistry, biophysics, and cell biology are encouraged to apply. Experience with mass spectrometry, RNA biology, deep sequencing technologies, obesity research, and animal models of energy metabolism, are highly desirable but not required.

As a private Ivy League research university, Penn offers a world-class environment for research in RNA biology and gene transcription regulation. The successful candidate will have access to the state-of-the-art equipment and study the regulation of energy homeostasis in mammals and RNA signaling in an interdisciplinary collaborative research group. Philadelphia is the sixth-most populous city in the United States, notable for its rich history and fun to live. A broad range of career-advancement and specialized training opportunities is available on campus throughout the year. Numerous recreational activities are routinely organized at Penn.

The RNA epigenetics laboratory will be led by Dr. Fange (Katherine) Liu, Assistant Professor of Biochemistry and Biophysics (appointed). The new lab is pursuing several research fronts rooted in biochemistry and biophysical chemistry, with an emphasis on energy metabolism. Please direct inquiries, CV and contact information of three references *via* email to [liufg@mail.med.upenn.edu](mailto:liufg@mail.med.upenn.edu).

### REQUIREMENTS

#### *Education/Skills*

- Ph.D. in Chemistry or Biology
- Substantial knowledge and working experience with protein purification systems, cellular experiments in the mammalian system, DNA/RNA biology and advanced mass spectrometry technologies (Triple Quadrupole Mass Spec, Q-TOF, Orbitrap, TOF/TOF) and chromatography.
- Experience in data analysis and report preparation.

#### *Personal*

- Ability to effectively interact with research and technical staff in a team-oriented manner, ability to suggest and discuss experimental strategies with life-science research groups. Highly motivated, result-focused, autonomous and organized person.

### OFFER

- Competitive starting salary, depending on previous experience and qualifications.
- The appointment will be renewable on a yearly basis, for a maximum of 5 years.

### DUTIES and RESPONSIBILITIES

- RNA extraction and RNA Library Preparation (RNA-seq, CLIP-seq, MeRIP, ribosome profiling, and etc.)

- Biochemistry experiments including protein purification, protein-RNA binding affinity determination, kinetics, and related techniques to accomplish the study
- Responsible for keeping detailed records of procedures and experiments in laboratory notebook. Compiles data, make necessary calculations, presents results at national conferences, and publish the results on high impact journals.
- Develops own research project(s) under the guidance of the Principle Investigator.
- Instructs and trains students, technicians and laboratory assistants as required.
- Understands and adheres to Penn's compliance standards as they presently exist and as they change or are modified.
- Performs other job-related duties as required.



## Postdoctoral Research Fellow Position in Bioinformatics at University of Pennsylvania

A postdoctoral research fellow position is available for highly motivated, self-directed researchers to join a new, well-funded research laboratory focused on RNA epigenetics research in the Department of Biochemistry and Biophysics at University of Pennsylvania (Penn).

The ideal candidates with strong background in Bioinformatics, biochemistry, and cell biology are encouraged to apply. Experience with data analysis on high-throughput sequencing data of RNA-seq, CLIP-seq, ChIP-seq, MeRIP, ribosome profiling is highly desirable. Experience with obesity research, and animal models of energy metabolism is an additional plus.

As a private Ivy League research university, Penn offers a world-class environment for research in RNA biology and gene transcription regulation. The successful candidate will have access to the state-of-the-art equipment and study the regulation of energy homeostasis in mammals and RNA signaling in an interdisciplinary collaborative research group. Philadelphia is the sixth-most populous city in the United States, notable for its rich history and fun to live. A broad range of career-advancement and specialized training opportunities is available on campus throughout the year. Numerous recreational activities are routinely organized at Penn.

The RNA epigenetics laboratory will be led by Dr. Fange (Kathy) Liu, Assistant Professor of Biochemistry and Biophysics. Please direct inquiries, CV and contact information of three references via email to: [kfangeliu@uchicago.edu](mailto:kfangeliu@uchicago.edu)

### REQUIREMENTS

#### *Education/Skills*

- PhD in Bioinformatics, or Chemistry, or Biology
- Substantial knowledge in data analysis of next generation high-throughput sequencing data
- Experience in report/manuscript preparation.

#### *Personal*

- Ability to effectively interact with research and technical staff in a team-oriented manner, ability to suggest and discuss experimental strategies with life-science research groups. Highly motivated, result-focused, autonomous and organized person.

### OFFER

- Competitive starting salary, depending on previous experience and qualifications.
- The appointment will be renewable on a yearly basis, for a maximum of 5 years.

### DUTIES and RESPONSIBILITIES

- Responsible for the data analysis on the high-throughput sequencing data generated by the lab members
- Responsible for keeping detailed records of procedures and experiments in laboratory notebook. Compiles data, make necessary calculations, presents results at national conferences, and publish the results on high impact journals.
- Develops own research project(s) under the guidance of the PI.

- Instructs and trains students, technicians and laboratory assistants as required.
- Understands and adheres to Penn's compliance standards as they presently exist and as they change or are modified.
- Performs other job-related duties as required.