



Postdoctoral Position in Molecular Physiology

A postdoctoral position in Molecular Physiology is available beginning July 1, 2017 in the laboratory of Dr. Carissa Krane in the Department of Biology at the University of Dayton, Dayton OH. The current areas of research conducted in Dr. Krane's lab utilize vertebrate and cell culture systems to study of the regulation of fluid homeostasis and the role of aquaporins in cardiovascular physiology and freeze tolerance using experimental approaches in molecular and cellular biology and organismal physiology.

More information on Dr. Krane's research can be found on the following link:

https://www.udayton.edu/directory/artssciences/biology/krane_carissa.php

Required Qualifications: Ph.D. in Biology/Biomedical Sciences, Physiology, Cell Biology, Molecular Biology, Genetics, or related area by the start date; previous research experience in molecular/cell biology or physiology demonstrated by at least one peer-reviewed first-author original research publication. **Preferred Qualifications:** Proficiency in mammalian/vertebrate cell culture techniques; experience with quantitative real-time PCR and other gene expression analysis techniques; demonstrated ability to analyze large data sets including gene expression or bioinformatics data; experience with using multivariate statistical analyses to analyze data; demonstrated experience with mentoring undergraduate and graduate students.

Funding is available through a generous donation created as part of the Schuellein Endowed Chair of Biology, currently held by Dr. Krane. The salary and benefits are competitive based on current NSF/NIH postdoctoral funding rates.

Questions about the position should be directed to Dr. Carissa Krane at ckrane1@udayton.edu.

Qualified applicants should submit the following materials 1.) cover letter, 2.) curriculum vitae, 3.) brief personal statement of prior research experience, interests, and future goals 4.) contact information for three references at <http://jobs.udayton.edu/postings/23029>.

Duties and responsibilities:

10%: Compile and summarize peer-reviewed scientific research

20%: Supervise and mentor undergraduate and graduate students who are conducting research in Dr. Krane's lab

35%: Conduct laboratory experiments; analyze data sets

20%: Author and co-author peer-reviewed scientific publications for English language journals, and participate in grant and fellowship writing when appropriate.

5%: Attend departmental seminar and graduate seminar

10%: Other duties related to facilitate the programming of the Schuellein Endowed Chair and/or Biology Department

Optional: Teach one undergraduate 3 credit hour course a year to gain teaching experience (pending the interest of the post-doctoral fellow).

Required Qualifications:

- PhD in Biology/Biomedical Sciences, Physiology, Cell Biology, Molecular Biology, Genetics, or related area by the start date.
- Previous research experience in molecular/cell biology or physiology demonstrated by at least one first-author peer-reviewed original research publication.

Preferred Qualifications:

- Proficiency in mammalian/vertebrate cell culture techniques
- Experience with quantitative real-time PCR and other gene expression analysis techniques
- Demonstrated ability to analyze large data sets including gene expression or bioinformatics data
- Experience with using multivariate statistical analyses to analyze data
- Record of mentoring undergraduate and graduate students in laboratory research
- Successful experience working in a collaborative, collegial atmosphere