The Michigan State University Department of Pediatrics and Human Development is now welcoming applications for a postdoctoral Research Associate position with the Xiaopeng Li laboratory in Grand Rapids, MI. The successful candidate will assist Dr. Li with his study of cystic fibrosis. Topics of interest to the lab include: pathogenesis of CF, gene and stem cell therapies, and lung injury and repair.

The Research Associate will conduct experiments, collect and analyze data, perform operational duties (both at the bench and in the field), prepare manuscripts and/or other publications, assist with lab administration and project management, and help keep the laboratory facilities and equipment in working order.

**Minimum Requirements:**

- PhD in Biology or a related field
- Excellent written and verbal communication skills
- Experience with mouse colony setup and maintenance (including inbreeding and general animal husbandry)
- Experience performing qPCR, qRT-PCR, DNA sequencing, mRNA isolation, cDNA synthesis, immunoblots, and immunohistochemistry
- Experience performing DNA, RNA, and protein preparation and purification
- Experience performing mouse dissection—including tracheostomy—lung ventilation, BAL collection, and lung removal
- Experience with cell and tissue culture
- Experience creating and maintaining databases

**Candidates with the following experience are preferred:**

- Pigs and pig physiology, including lung removal and small airway dissection
- Operating, troubleshooting, and cleaning laboratory equipment
- Compiling data, performing data analyses, and writing summary reports
- Ordering lab supplies
- Maintaining EHS compliance
- Training graduate students
- Working at an academic research institution

The successful candidate will be self-motivated, taking the initiative and embracing the responsibilities of independent project management; hands-on and detail-oriented, capable of thinking critically and designing experiments to solve complex research problems; and a team player willing to collaborate within the research group and proactively share knowledge and experience with other lab members.

**Applicants should apply on-line at:** [https://careers.msu.edu/en-us/job/503247/research-associatefixed-term](https://careers.msu.edu/en-us/job/503247/research-associatefixed-term)

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