Postdoctoral fellow positions (2 positions) are currently available in the Department of Clinical Translational Sciences at Marshall University Joan C. Edwards School of Medicine, Huntington WV. The current research focus of the PI Dr. Uma Sundaram and his associated PIs include studies on novel physiological and molecular mechanisms of altered intestinal nutrient and electrolyte transport in obesity, Inflammatory Bowel Disease, in response to intestinal infection by enteric pathogens and as modulated by beneficial gut bacteria. This research will involve the formulation and testing of hypotheses, animal experimentation and surgery, cell culture, intestinal organoid culture, molecular and cell biology techniques and imaging techniques. The postdoctoral fellows will be expected to be current in the field literature, to plan and conduct experiments, interpret data and publish results. Successful candidates will have a significant record of accomplishment that demonstrates creativity and initiative, and will be working as a team closely with the PI in his well-equipped state-of-the-art research facility.

Applicants should attach a cover letter, curriculum vitae, a description of their research experience, and current contact information for three potential references.

Job Responsibilities:
- Conduct active lab research on a semi-independent basis at the beginning and on an independent basis afterwards. The lab research works include, but not limited to, mammalian cell culture, intestinal organoid culture, radioactive uptake experiments in cells, organoids and animal intestinal membrane vesicles, molecular and cellular biology techniques such as western blot/PCR/gene cloning and mutagenesis, basic microbiology techniques, and animal care and animal surgery on different animal models.
- Design and evaluate experiments; develop new ideas that promote current research.
- Train and oversee technicians as determined by PI.
- Hold responsibility for operation of specific equipment if needed.
- Prepare and publish scientific manuscripts under the direction of the PI.
- Perform other duties as assigned or requested by PI.

Education: Ph.D., M.D. or equivalent from an accredited institution in any field of biochemistry, biology, pharmacology and medicine.

Experience: Participation on research projects as a semi-independent or independent researcher, with systemic training of bench research. Candidates with a research experience of at least 2-3 years in the field of intestinal epithelial cell biology/transport physiology research at the level of graduate school or post doctorate are highly preferred.