

### **Post-Doctoral Research Position**

A post-doctoral research position is currently available in the laboratory of Dr Yolonda Colson in the division of Thoracic Surgery at Brigham and Women's Hospital (Boston, MA). Dr Colson is a clinically active surgeon with a specific interest in surgical oncology and the prevention of tumor recurrence after surgery. Research interests of the lab are focused on immunology and surgical oncology and have lead to multiple collaborative manuscripts in near-infrared imaging, lymph node targeting, real-time mapping of lymphatics, and polymer-mediated drug delivery. A vast array of research projects involving clinical trials, basic science and outcomes research are currently available. Clinical trials, under the direction of Dr Colson, currently focus on the use of near-infrared (NIR) imaging for lymphatic mapping in non-small cell lung cancer, melanoma and lymphedema following lymphadenectomy. A collaborative effort with Dr Mark Grinstaff at Boston University has produced advancing basic science research into the use of nanoparticles in mesothelioma, non-small cell lung cancer, ovarian cancer and breast cancer. We are currently studying the anti-tumor mechanism of expansile nanoparticles through cell entry and cell signaling using confocal imaging and flow cytometry. In addition, separate small animal studies are currently being conducted to test the 1.) efficacy of slow releasing films loaded with chemotherapeutics and 2.) the ability of paclitaxel-loaded pH responsive expansile nanoparticles to prevent lymph node metastases. Support is also available for outcomes research studying the gender differences in lung cancer. We are seeking an individual with strong analytical skills and an eagerness to conduct basic science, translational or outcomes research. Prior experience is not mandatory. The successful applicant is expected to work collaboratively with other members of the research team to initiate, conduct, present and publish results of studies.

For more information, please email Dr Colson ([ycolson@partners.org](mailto:ycolson@partners.org)) and copy her assistant, Sarah Burton ([smburton@partners.org](mailto:smburton@partners.org)).

### **Post Doctoral Research Fellowship Position**

**Where:** Laboratory of Dr. Jennifer Lawton  
(<http://www.ncbi.nlm.nih.gov/pubmed?term=lawton%20js>)  
(<http://wuphysicians.wustl.edu/page.aspx?pageID=1018>) adult cardiac surgeon,  
Washington University in St. Louis, MO

**What:** 2 year position

The NIH funded laboratory focuses on the myocyte response to stress in an in vitro model of myocardial stunning. Models include rabbit and mouse as well as

examination and correlation in human tissue at the cellular and subcellular levels.

Collaboration with Colin Nichols, PhD, Professor of Cell Biology and Physiology (<http://www.nicholslab.wustl.edu/>)

**The applicant:** We are seeking a motivated and self-starting individual interested in acquiring basic research skills and clinical research skills. The applicant should be able to work independently and also as a member of a collaborative team. The applicant would perform experiments, write and publish manuscripts, interpret data, critically evaluate the relevant current literature, contribute new ideas, and present his/her results at national meetings.

**The laboratory:** The Cardiothoracic Surgery Division at Washington University is supported by 7 NIH RO1s, an NIH T 32 training grant, an NIH R21, an NIH KO8, two NIH SBIRs, and AHA and Barnes Jewish Hospital Foundation grants. Additional support is provided by industry and the Division.

The division research space in the Clinical Sciences Research Building is greater than 7,500 sq. ft. and houses 3 operating rooms and one preparation room. The laboratory is well equipped for a wide range of investigations, from cellular and molecular biology to large animal system physiology. The laboratory is supported by a full time Veterinary staff and technician support as well as an electronic technician, 2 machinists, a full time administrative assistant, and a computer programmer.

Clinical research is supported by the Division Clinical Research and Data Management Group that is composed of 13 full-time employees (research coordinators, database specialist, data coordinators, and statistician).

**To inquire or apply:** lawtonj@wustl.edu