FULL-TIME/PART-TIME POSITION AT FDA

Project Title
In vitro Assessment of Coating Integrity on Vascular Guidewire Mimics

Position
One full-time or part-time funded intern position is available for the Fall 2015. This position may be extendable in 2016.

Organization
U.S. Food & Drug Administration, Center for Devices and Radiological Health, Office of Science and Engineering Laboratories

Job Location
FDA White Oak Campus, 10903 New Hampshire Ave, Silver Spring, MD 20993

Project description
Guidewires/catheters are widely used in over million interventional and diagnostic procedures per year. Unfortunately, the coatings on these devices can sometimes peel away causing variety of adverse events including embolization, thrombosis, and stroke. This research project aims to address differences in coating performance on coated and uncoated guidewire mimics using a variety of mechanical test methodologies. The results will help identify reliable criteria for acceptable clinical performance. During this research project, the intern will receive broad biomedical research training in various aspects of testing. The intern will also be encouraged to self-train on certain equipment and software. The major tasks assigned to the intern may include: 1) designing and building a test apparatus, including some machining; 2) setting up in vitro assessment tests; 3) evaluation using microscopy and SEMs; 4) performing comparative analyses of data obtained from these (or prior) tests; 5) maintaining hard and soft copies of data, analyses, and reports generated; and 6) to make clear presentations on findings.

Position Requirements
A self-motivated, diligent B.S./M.S. level student in biomedical/mechanical/chemical engineering willing to work part-time during the school year (20 hours per week minimum) or full-time after graduation.

Contact:
Primary- Nandini Duraiswamy, Ph.D.; nandini.duraiswamy@fda.hhs.gov
Alternate- Katherine Vorvolakos, Ph.D.; katherine.vorvolakos@fda.hhs.gov
U.S. Food and Drug Administration
10903 New Hampshire Avenue
Building 62, Room 2206
Silver Spring, Maryland 20993-0002
Phone: (301)796-5154