Postdoctoral Research Fellowship at FDA
Materials Scientist/Chemical Engineer

POSITION: Postdoctoral Fellowship – 1 year (may be extended)
DIVISION: United Stated Food and Drug Administration (FDA), Center for Devices and Radiological Health (CDRH), Office of Science and Engineering Laboratories (OSEL), Division of Biology, Chemistry and Materials Science (DBCMS)

LOCATION: Silver Spring, MD
COMPENSATION: ~$75,000/year

ABOUT FDA/CDRH/OSEL
The Office of Science and Engineering Laboratories (OSEL) is the laboratory within the Center for Devices and Radiological Health (CDRH) of the Food and Drug Administration. OSEL performs product testing; develops reliable standardized test methods for CDRH and industry use; performs anticipatory scientific investigations on emerging technologies; contributes laboratory data to national and international standards used in CDRH decision making; provides scientific and technical training for CDRH staff members; and maintains laboratory collaborations and relationships with scientific researchers in academia and other Federal laboratories.

POSITION INFORMATION
This appointment is offered through the CDRH Postgraduate Research Participation Program and is administered by the Oak Ridge Institute for Science and Education (ORISE). The program is open to all qualified U.S. and non-U.S citizens without regard to race, color, age religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran. The individual selected for appointments will not become employees of ORISE, ORAU, DOE, FDA, CDRH, or any other office or agency. Program participants will be paid a monthly stipend. The participants may be located at any FDA-approved location. Note this is not a GS position. This is an educational program and candidates should be within 5 years after Ph. D graduation.

DUTIES
The incoming post-doctoral fellow will work with a multi-faceted team in conducting research to better understand the risks that colorants within medical devices pose to patients. The research will involve analysis of transport phenomenon, in particular measuring diffusion of small molecules in polymer matrices, using both computational analysis and analytical chemistry methods. The ideal candidate would have experience in all three of these areas (see Qualifications below). The fellow will be expected to conduct diligent laboratory research, prepare reports and communicate results within the center and Agency.

QUALIFICATIONS
As stated above, the proposed research will focus primarily on characterizing transport phenomena in polymeric materials, but will also involve computational analysis and analytical chemistry techniques. The ideal candidate would have experience in all three of these areas. Therefore, we are seeking a materials scientist/chemical engineer with a background in the area of transport phenomenon, specifically the diffusion of small molecules in polymer materials. Familiarity with LINUX/UNIX along with experience/expertise in polymer chemistry, polymer physics, polymer characterization techniques, structure-property analysis, analytical separation techniques (e.g. HPLC), elemental analysis (e.g. ICP-MS) and numerical methods and regression analysis would also be very beneficial. Qualified applicants will have a Ph.D. in one of the areas described above with at least one year of relevant experience.

HOW TO APPLY
Qualified applicants may send their cover letter, resume or CV, and contact information of three professional references to brendan.casey@fda.hhs.gov. This is not a career-conditional competitive position.