

**JOB DETAILS**



Division of Chemistry and Materials  
Science

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**Spinal Disc Joint Simulator/Polymer Structure**

<b>Company:</b>	Food and Drug Administration
<b>Discipline:</b>	Research and Development Engineering & Design Regulatory Affairs
<b>Market:</b>	Medical Devices
<b>Location:</b>	Silver Spring, Maryland
<b>Reference #:</b>	Post-doctoral researcher BJN
<b>Income:</b>	\$74872
<b>Req. Certs.:</b>	
<b>Posted:</b>	12 Jul, 2011

**Position Description:**

We are seeking an interdisciplinary scientist with a Ph.D. and background in the areas of mechanical testing, wear and/or fatigue testing, and polymer or materials science. The candidate should possess good interpersonal skills and be self-motivating, show initiative, and be able to work independently as well as direct undergraduate students. Experience in the following is preferred:

1. MTS and/or Instron load frames.
2. MicroCT analysis, Scanning Electron Microscopy, profilometry, DSC, FTIR, TMA, and AFM or transmission electron microscopy.
3. ASTM and/or ISO standards.
4. Mechanical testing of medical devices.
5. Spine or total joint simulators.
6. Pin-on-disc wear testing.

**Position Requirements:**

Post-doctoral researcher with first hand experience in mechanical testing of medical devices as well as polymer mechanical properties, tribology and degradation.

**Education Requirements:**

PhD graduate. Major areas of study: mechanics and morphology of polymers and total joint testing.

**Contact Information:**

Qualified applicants may send their cover letter, resume or CV, and contact information of three professional references to  
Martin.McDermott@fda.hhs.gov and Recruitment@fda.hhs.gov.

**Email:** [Martin.McDermott@fda.hhs.gov](mailto:Martin.McDermott@fda.hhs.gov)

**Web Site:** [www.fda.gov/MedicalDevices/ScienceandResearch/ucm2007487.htm](http://www.fda.gov/MedicalDevices/ScienceandResearch/ucm2007487.htm)

**Company Information:**

The Office of Science and Engineering Laboratories (OSEL) is the laboratory of the Center for Devices and Radiological Health (CDRH) of the Food and Drug Administration (FDA).

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. OSEL also coordinates and oversees CDRH's activities that support the development of national and international standards.

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