

Job Title	Research Associate
PVN ID	CC-1711-002211
Category	Research
Location	The CITY COLLEGE of NEW YORK
Department	Biomedical Engineering
Status	Full Time
Annual Salary	\$48,000.00 - \$50,000.00
Hour(s) a Week	35
Closing Date	Jan 10, 2018 (Or Until Filled)

General Description

Biomedical Engineering Research Associate. PhD or postdoctoral level researcher with experience in numerical and experimental biomechanics of soft and mineralized tissues.

Other Duties

Job Duties

Major duties will include the acquisition, management, and analysis of micro computed tomography imaging (μ CT) data in studies using human and animal tissues, as well as the development of tissue-specific finite element models produced from μ CT images. Primary activities include preparing human and animal tissues for μ CT scanning, reconstruction of images, and analyses of microarchitecture and morphology. Other major activity comprises planning and performing experimental biomechanical testing on tissues and on live animals. Duties also include interacting with graduate and undergraduate students, and management of laboratory supplies and safety.

Qualifications

Job Qualifications

Candidates should have good interpersonal and communication skills to communicate and work as a team member with research and administrative staff and students. It is expected that candidates will work

independently, and will show the ability to establish priorities to meet deadlines and accomplish established goals. Knowledge and experience using standard software programs including Microsoft Office (Word, Excel, PowerPoint). Knowledge of computer programming/scripting (e.g., Matlab, Fortran); knowledge and experience on image processing software (Nrecon, ImageJ, Mimics, ScanIP) and finite element software (abaqus), preferable with experience on hyperelasticity, rupture mechanics and non-linear mechanics. Experience in segmentation calibration of contrast enhanced μ CT images of biological tissues. Demonstrated experience with data acquisition and management of tissue biomechanics. Knowledge of cochlear biomechanics, acoustics, solid-fluid interaction, biomedical and electrical engineering, and/or related fields.