

Postdoc or Research Engineer at Johns Hopkins University: Injury biomechanics (US Citizen or permanent resident only)

We are looking for a **Postdoc Fellow (with PhD)** or a **Research Engineer (w/o a PhD)** in the area of **injury biomechanics** and **human body modeling**. The successful candidate will work with Associate Research Professor Feng Zhu (<https://fzhu.wse.jhu.edu/>) in Hopkins Extreme Materials Institute (HEMI), Johns Hopkins University on a government-funded project.

Duties

- Develop numerical (finite element) models to simulate the neck response of Air Force pilots in the training or combat environments
- Injury data analysis
- Write technical reports, papers and research proposals
- Guide the graduate students in the group

Requirements

- **US Citizenship or Permanent Residency**
- For Postdoc: PhD in Mechanical/ Biomedical Engineering or other close areas;
For Research Engineer: Master's degree in the related field
- **Fluency in LS-DYNA (This is an essential requirement.)**
- Experience of handling FE models with very complex geometry and visco-elastic material behavior (like biological organs)
- Knowledge of active muscle modeling is a plus

Others

- Competitive salary
- Current appointment is 12 months (this is the performance period of this project); Renewable based on funding availability and mutual interest

Interested candidates please send me a single PDF containing CV, and name/contact information of three references to fzhu8@jhu.edu. Email subject: "Neck Injury biomechanics postdoc/research engineer". Please clearly specify which position you want to apply.