

Be a part of an important research study!

“Effects of Multi-axial Whole Body Vibrations on Postural Stability”

Researchers from the College of Public Health and Human Sciences at Oregon State University are planning to do a study measuring how different seat suspensions attenuate exposure to whole body vibration and affect biomechanical exposures and postural stability. We hope the results of this study will help us evaluate the current designs and potentially lead to the identification of additional design modifications to further promote occupational health of drivers.

What to expect:

- You will be asked to sit on different truck/tractor seats while field-measured vibration data are played on a vibration platform for 4 experimental sessions.
 - **5 hours for 4 days:** each day consists of two 2-hour sitting periods with a 30-minute after the first 2-hour sitting session.
- You will be paid for being in this research study at a rate of \$20/hour. If you complete all the 4 sessions, your compensation will be approximately **\$400** (4 days X 5 hours X \$20).
- Demographic (age, gender, race, etc.) and anthropometric information (sitting and elbow height, weight, etc.) will be collected.
- Vibration on the seat and floor, muscle activity (electromyography), body motion data, head acceleration, postural stability, and fatigue/comfort/preference ratings will be collected. All of these measurements are non-invasive and minimal risk.
- Face covering is required to access the laboratory and participate in the experiment.

To be eligible, you should:

- Have a minimum of **1 year** driving experience;
- Be **pain free** (no pain in last 7 days) in neck, shoulder, and back regions with no history of musculoskeletal disorders in these regions;
- Be **21-49** years of age;
- Be not pregnant.
- Have **NO** underlying medical conditions defined by the Center for Disease Control during COVID-19 pandemic, including chronic kidney disease, chronic obstructive pulmonary disease, immunocompromised state from solid organ transplant, obesity (body mass index of 30 or higher), serious heart conditions (e.g., heart failure, coronary artery disease, cardiomyopathies, sickle cell disease, type 2 diabetes mellitus);
- Not have symptoms of any contagious illness, including but not limited to fever, cough, shortness of breath or difficulty breathing, sore throat;
- Not have possibly been exposed to someone with COVID-19 or visited area where the COVID-19 prevalence is high for the last 14 day;

Not have a positive test for COVID-19 in the past 14 days.

Taking part in this study is voluntary. If you are interested in participating in the study or just want more information, please contact Occupational Ergonomics and Biomechanics Lab via:

- Email: OEB.Lab@oregonstate.edu
- Phone: (541) 737-3640

Thank you!
Occupational Ergonomics and Biomechanics Lab