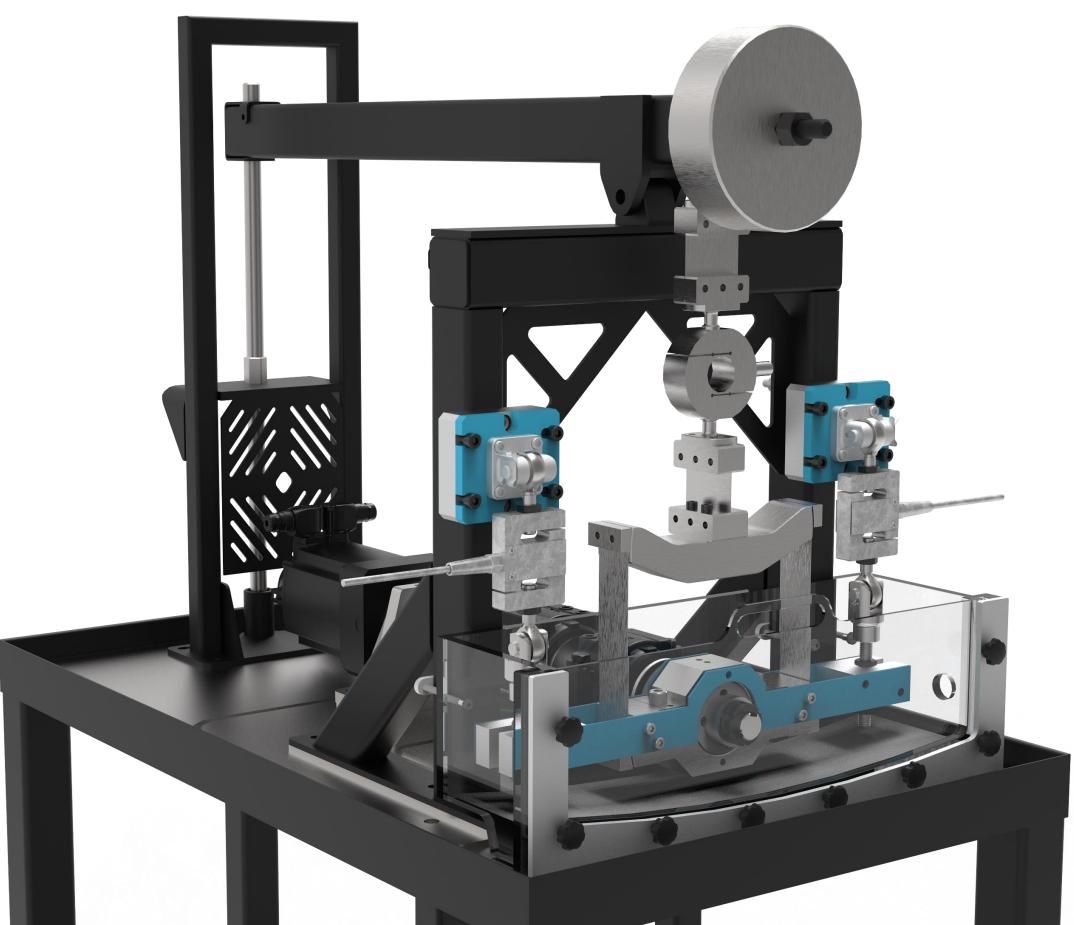


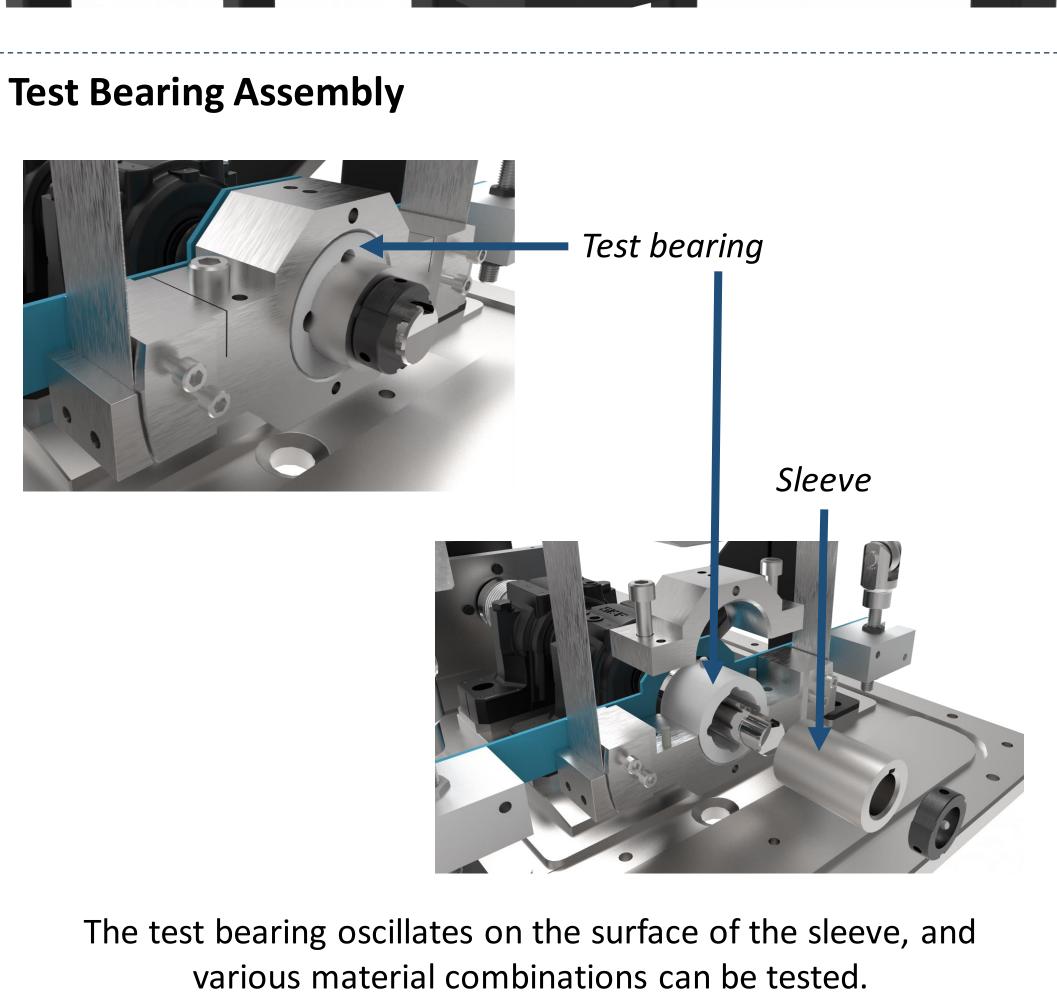
## MF2077 Machine Design Advanced Course II 2023

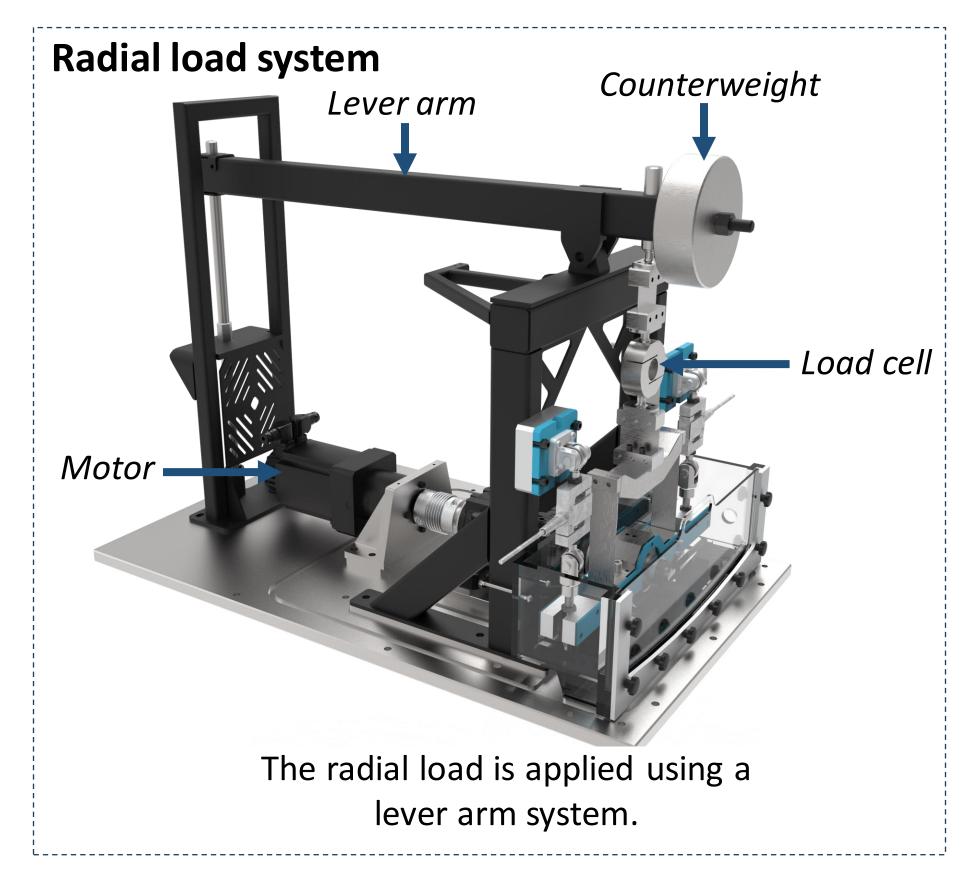
## Test Rig for Tribological Evaluation of Sliding Bearings in Saline Water

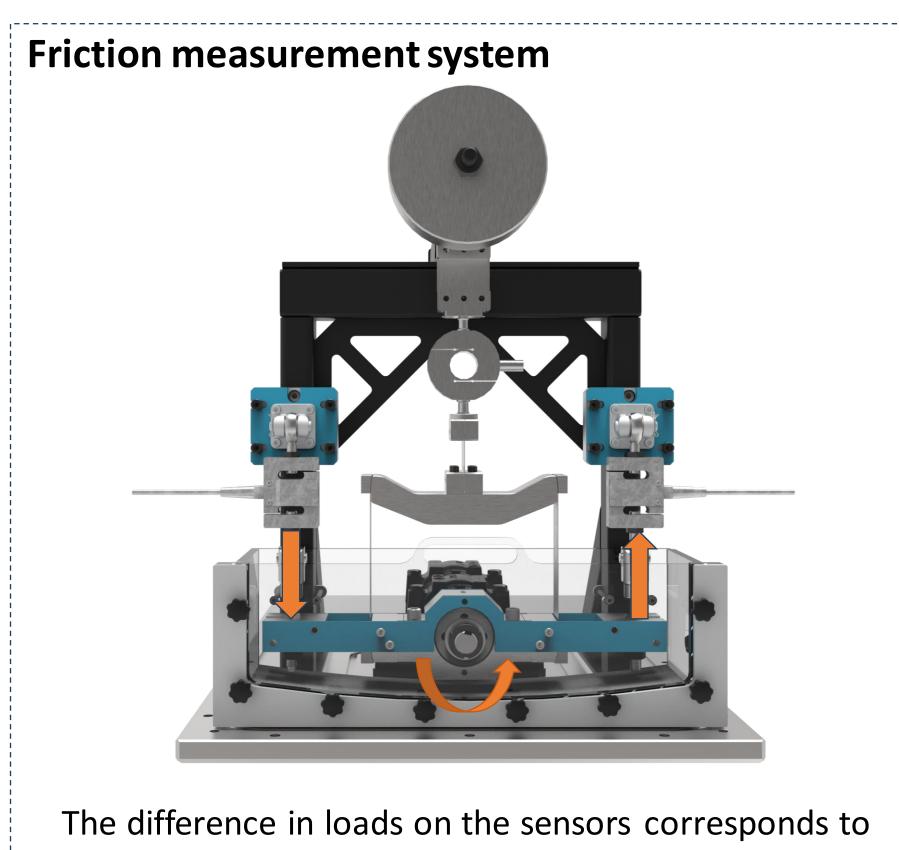
As tidal turbines and wave energy converters are new and emerging technologies, there is a limited understanding of the tribological performance of bearings in a saline environment. Our project provides a platform to test sliding bearings to understand their performance under accelerated wear conditions.

- Replication of the operating conditions of an underwater tidal turbine bearing (underwater environment with 1 Hz and 90° movement).
- Up to a 5 kN radial load applied.
- Both continuous and reciprocating capabilities.
- Measures the friction of the bearing.
- LabView is used to acquire and save data.









the friction between the sliding bearing and the sleeve.

