

# IOWA STATE UNIVERSITY

Agricultural and Biosystems Engineering

## Running the Shear Cell Simulation

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# Open Shear Cell Example

- Using the shortcut you previously created, navigate to the tutorial shortcut -> LIGGGHTS\_Flexible\_Fibers -> examples -> BondPackage -> Tutorials -> Single\_Tests -> shear\_box
- Three files to
  - Generate the packing (in.insert\_particles)
  - Settle the particles (in.settle\_particles)
  - Shear the box (in.shear)
- File shows the use of
  - Writing restart files
  - Reading restart files
  - Restarting from a crash
  - Writing loops
  - If statements

# Running the Example

- A input script can be ran by running the following commands
  - `liggghts -in in.insert_particles`
  - `liggghts -in in.settle_particles`
  - `liggghts -in in.shear`
- LIGGGHTS will now read and interpret your input scripts

# Paraview

- The scripts will continue to make a continuous record for viewing
- You will need to disable some of the mesh files

