Goals: Developing multi-scale, coupled models to describe granulation processes occurring in different unit operations. Develop reduced order models to increase the computational efficiency.

**Equipment**

- **Fluidized bed granulation**
  - Images a, b, c, d
  - Change in PSD, porosity, liquid content

- **Agitated Filter Dryer**
  - Overhead Stirrer
  - Acetaminophen with solvent
  - Dual-blade impeller
  - Water bath at 70°C

- **High-shear granulation**
  - Images 1, 2, 6
  - Change in PSD, porosity, liquid content

**Email:** tamrakar.ashutosh@gmail.com