

**CHEG 3128 – Chemical Engineering Junior Laboratory  
CSTR 2 Prelab**

**One member of each group must email the .stl file of the chosen test propeller/impeller to [emily.fisler@uconn.edu](mailto:emily.fisler@uconn.edu).** This file must be sent by 11:59PM on the same day this prelab is due.

The first two problems utilize Solidworks tutorials. To access the necessary tutorials, first open Solidworks. Under the “Help” tab, select “Solidworks Tutorials” then select “Basic Techniques.”

1. Complete the “Fillet” tutorial. Show images of the part in isometric view, top view, and right view.
2. Complete the “Lofts” tutorial. Show images of the part in isometric view, top view, and right view.
3. Design your own propeller for the CSTR experiment. Show images of the part in isometric view, top view, and right view.
4. Among the propeller designs in your group, which design do you think would give the best mixing? Explain your reasoning and show images of the propeller design.