



Processing hardware development and testing internship
PARSEC Solutions LLC
August 2018 - August 2019
Purdue Research Park, West Lafayette

- A) Primary function of position
Assist in the development of state of the art pharmaceutical particle engineering systems in start-up company environment.
- B) Activities
- Facility setup
 - System assembly
 - Custom hardware design
 - Atomizers/mixers/inertial separators/control and data acquisition systems.
 - Computational fluid dynamic simulation
 - Formulation chemistry
 - Process development
 - Develop Standard Operating Procedures (SOPs)
 - Feedstock preparation
 - System operation
 - Process analysis
 - Powder assay development
- C) Education and skills required
- a. Enrolled in any of the technology or engineering programs in the fields of mechanical, chemical, agricultural or pharmaceutical.
 - b. Mechanical ‘hands-on’ person with the ability to operate in a flexible R&D laboratory environment.
 - c. Computer aided engineering familiarity (CAD/CFD)
 - d. Strong communication and writing skills in English
 - e. Prefer graduate level or well skilled Jr/Sr.
- D) Time commitment:
- a. 20-40 hrs/wk.
 - b. Scheduling flexibility possible.