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.