Particle Engineering Laboratory R&D Paid Intern Position at Start-up Company—PARSEC Solutions LLC
April 2023 – December 2023
Purdue Research Park, West Lafayette, Indiana
Send resume to: Dr. Herman Snyder, hsnyder@parsecsolns.com

A) Primary function of position:
Support custom pharmaceutical processing hardware creation and process development in the field of particle engineering conducted in industry supported start-up company environment.

B) Job Activities:
Primary responsibilities
- Use fundamental engineering principles to assist with custom hardware design, test setup and operation.
- Assist with commercialization of prototype components.
  - Atomizers/mixers/inertial separators/control systems.
- Work with the team to identify and implement continuous improvements to prototype systems.
- Perform data analysis.
- Write test plans and reports.
- Coordinate testing requirements as needed.
- Work effectively with the development team and industry partners.

Secondary
- Execute operation of laboratory assays; including Karl Fischer, laser diagnostic droplet and particle size measurement techniques.
- Develop laboratory Standard Operating Procedures (SOPs).
- Develop formulation chemistry and feedstock preparation processes.

C) Requirements:
- Enrolled in any of the Purdue science, engineering or technology programs in the fields of chemistry/chemical, pharmacy/pharmaceutical, mechanical, aeronautical, or agricultural/biological.
- Ability to follow Standard Operating Procedures (SOPs) for experiments/assays/API handling.
- ‘Hands-on’ laboratory experience with the ability to operate in a flexible R&D laboratory environment.
- Previous internship/Co-Op experience in pharmaceutica industry preferred.
- Experience working with analytical lab instrumentation preferred.
- Experience with statistical data analysis and thermodynamics programs a plus (Ex. Jmp/MatLab/EES)
- Strong communication and writing skills in English.
- Prefer graduate level or well skilled Jr/Sr.
- US citizen or appropriate VISA status for private company employment.

D) Time commitment:
- Part Time ~20/wk during spring and fall semesters, 40 hrs/wk during summer period in 2023.
- Flexible works periods around class schedule.
- Majority of hours required between 8AM-5PM, at PARSEC lab facility in the Purdue Research Park, West lafayette Indiana.