Particle Engineering Laboratory R&D Paid Internship at Start-up Company - PARSEC Solutions LLC

Sept 2024 – July 2025
Purdue Research Park, West Lafayette, Indiana
Send resume to: Dr. Herman Snyder, hsnyder@parsecsolns.com

A) Primary function of position:
Perform assay testing of solid particle products to for development of advanced pharmaceutical powder engineering systems conducted in industry funded start-up company environment.

B) Job Activities:

Primary responsibilities

- Execute and troubleshoot laboratory assays; including Karl Fischer, laser diagnostic droplet and particle size measurement techniques.
- Develop formulation chemistry and feedstock preparation processes.
- Develop laboratory Standard Operating Procedures (SOPs).
- Perform data analysis.
- Write test plans and reports
- Maintain stock of assay consumables.
- Coordinate testing requirements as needed.
- Work effectively with the development team and industry partners.

Secondary

- Assist with custom hardware design, testing and operation.

C) Requirements:

- Enrollment in 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 handing.
- 'Hands-on' laboratory experience with the ability to operate in a flexible R&D laboratory environment.
- Experience working with analytical lab instrumentation preferred.
- Previous internship/Co-Op experience in pharamaceutical industry preferred.
- Experience with statistical data analysis programs a plus (Ex. JMP)
- Strong communication and writing skills in English.
- Prefer graduate/upperclassmen or skilled sophomores.
- US citizen or appropriate VISA status for private company employment.

D) Time commitment:

a. Part Time ~20/wk during spring and fall semesters, 40 hrs/wk during summer period in 2025.
b. Flexible works periods around class schedule
c. Majority of hours required between 8AM-7PM, at PARSEC facility in the Purdue Research Park, West lafayette Indiana.