



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

April 2024 – April 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 dose products to assist development of advanced pharmaceutical particle 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, test setup and operation.
- Assist with commercialization of prototype components.
 - Atomizers/mixers/inertial separators/control systems.

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 pharmaceutical industry preferred.
- Experience working with analytical lab instrumentation preferred.
- Experience with data analysis programs a plus (Ex. jmp)
- 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:

- a. Part Time ~20/wk during spring and fall semesters, 40 hrs/wk during summer period in 2024.
- b. Flexible works periods around class schedule
- c. Majority of hours required between 8AM-5PM, at PARSEC facility in the Purdue Research Park, West Lafayette Indiana.

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