

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:

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 handing.
- 'Hands-on' laboratory experience with the ability to operate in a flexible R&D laboratory environment.
- Previous internship/Co-Op experience in pharamaceutical 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:

- 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 lab facility in the Purdue Research Park, West lafayette Indiana.

PARSEC Solutions LLC, Purdue Technology Center, 1281Win Hentschel Blvd. West Lafayette, IN. 47906 (765) 237-3392 (office), (650) 745-6148 (cell), hsnyder@parsecsolns.com, www.parsecsolns.com

3/24/2024

1