

Chemical Engineer, M.E., EIT

Current Address: City, State Zip Code – (555)-555-5555 – email@website.com

OBJECTIVE: Seeking a full-time position related to process engineering, equipment design, or consulting in the pharmaceutical or cannabis industries.

EDUCATION: Stevens Institute of Technology, Hoboken, New Jersey

Bachelor of Engineering in Chemical Engineering

5/2015

Masters of Engineering in Pharmaceutical Manufacturing Engineering

12/2015

SKILLS: **Lab Skills:** Petrochemical-botanical extraction techniques, vial-to-pilot-scale process development, preparing chemical solutions, flash chromatography, winterization, decarboxylation, isomerization, hydrogenation, facile synthesis, gas-liquid and high-performance liquid chromatography, thin layer chromatography, spectroscopy, polarimetry, spectrofluorometry, (re)crystallization, tube-shell heat exchanger operation, batch reactor operation, air stripping, graphical depiction and analysis, distillation: simple, vacuum, short-path, wiped film, steam

Software: Pro/II with Provision, Aspen Plus V8, SuperPro Designer V9.5, ProModel 2014 with StatFit, NIST REFPROP, Labview, Matlab Simulink, SolidWorks 2011, MS Office: Excel, PowerPoint, Word

Relevant Subjects: Good Manufacturing Practices and Quality in Pharmaceutical Manufacturing, Process Safety Management, Regulatory Affairs in Pharma

RELATED **Current Employer**

EXPERIENCE: Process/Scale-Up Engineer, R&D and New Product Dev.

2/2017 – Present

- Support the R&D and scale up of new products.
- Development of training materials, operating procedures and procurement lists for new processes.
- Employ a structured management of change protocol for equipment updates or process improvements.
- Assist general production staff with equipment training, troubleshooting, maintenance and upgrades.
- Perform and consult on all process operations from primary extraction to distillation/isolation.
- Conducted process cost/throughput analyses for upper management/sales consideration in determining product price points.

Previous Employer, Santa Cruz, CA

Laboratory Manager, Extractions Division

7/2016 – 11/2016

- Regulated flow of process materials from raw-material check-in, through processing, up until packaging.
- Allocated manpower to pertinent tasks based on priority and understanding of personnel skills.
- Assisted and instructed extractions team in performing BHO extractions.
- Conducted regular safety checks and maintained/updated equipment to ensure process safety.
- Analyzed extraction processes and applied engineering principles to optimize equipment utilization.

Previous Employer: Lincoln Park, NJ

Flavor Compounder, Flavors Department

10/2015 – 7/2016

- Interpreted and scaled flavor formulas to meet clients' order sizes and deadlines.
- Prepared concentrated flavor solutions by weight percentages of components.
- Performed two-phase, liquid-liquid extractions using separatory funnels.
- Conducted enzymatic reactions for the formulation of non-naturally occurring flavor species.

Previous Employer, Bloomfield, NJ

Process Engineer

6/2014 – 3/2015

- Interpreted process flow diagrams and piping and instrumentation diagrams.
- Modeled a Solvent Deasphalting Process Unit using simulation software.
- Verified thermal properties, mass and energy balances of process units and streams.
- Sized process vessels, nozzles and pipes.
- Clearly tabulated and annotated all calculations and design methods for future reference.

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PROJECTS:

Current Employer

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| • THCA Isolation | Process Engineer | 2/2017 – 08/2017 |
| • Δ^9 -THC \rightarrow Δ^8 -THC Isomerization | Process Engineer | 2/2017 – 6/2017 |
| • THCA/Terpene Diamond Growth/Formulation | Project Manager | 10/2017 – 6/2018 |
| • CBD Isolation | Process Engineer | 6/2018 – Present |
| • CBD \rightarrow Δ^9 -THC/ Δ^8 -THC Isomerization | Process Engineer | 6/2018 – Present |
| • CBN/CBNA Synthesis/Isolation | Process Engineer | 4/2018 – Present |
| • Cannabinoid Hydrogenation | Process Engineer | 9/2018 – Present |

Previous Employer

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| • Solvent Deasphalting Unit | Process Engineer | 6/2014 – 1/2015 |
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