
7040 Avenida Encinas 104-848, Carlsbad CA 92011

(760) 666 - 0602 customs@toadsol.com

Objective

I am looking to partner with an established company to develop highly effective products to deliver to the legal market. I would like to collaborate with an innovative, forward thinking company to produce the most unique and high quality extracts available to the public.

Education

I have had formal training in Inorganic Chemistry, Organic Chemistry, Physical Mechanics, Electromagnetism, and Thermodynamics. I am currently working toward my education towards a Bachelor's in Chemical Engineering.

Job Experiences

Apprentice III - Inorganic Chemistry and Organic Chemistry Tutor

MiraCosta College, Oceanside, CA

August 2017 - December 2018

- Organized, designed, and facilitated learning sessions for groups of students
- Acted as a general and organic chemistry tutors on the floor at the S.T.E.M. center

Lab Director

Aura Labs LLC, Corona, CA

December 2018 - July 2019

- Designed, assembled, and operated the lab space and all equipment
- Developed and optimized the processing of hemp to T-free distillate and CBD isolate

Head of Research and Development - Cannabis Division

Expert Chemical Analysis, San Diego, CA

January 2019 - Present (.20 FTE)

- Design formulations, reactions, and experiments for viable cannabis product lines
- Designed, built and tested iterative versions of equipment for the development of equipment product lines

Chief Executive Officer

Merlin Labs LLC, Carlsbad, CA

October 2018 - Present (.10 FTE)

- Research and development of techniques and processes for producing artisan extracts
- Provide consultation packages to traditional and licensed facilities

Skills

Extractions

- Design and construction of systems to achieve desired throughput and end product
- Operate pre-fabricated hydrocarbon extraction systems currently on the market (hands-on experience running and optimizing the ETS-MEP and Precision MX40)
- In-line isolation of THCa at commercial or industrial scale with proper equipment
- In-line remediation of pigments, lipids and heavy metals

- Artisan post-processing to produce extracts of varying consistencies (diamonds, sauce, shatter, crumble, ect.)
- Training of lab technicians to be proficient in high quality hydrocarbon extractions
- Skilled with using the following solvents for extraction: ethanol, butane, propane, heptane, methanol, hexane, pentane

Post-Processing

- Proficient in setting up and running chromatography columns
- Perform winterization and design systems to do so efficiently at a large scale
- Consistently achieve >90% cannabinoids on any proper distillation setup
- Create water clear distillate, and full spectrum non-distillate carts
- Pesticide remediation of a large variety of pesticides
- Isolation of cannabis derived terpenes, void of cannabinoids, which accurately represent the terpene profile of the plant

Formulation

- Creation of specific ratios of various terpenes to elicit specific desired effects in the user, while negating other less desirable effects (including and not limited to focus, calmness, creativity, uplifted mood, clear headedness, appetite suppression, ect.) in cartridges
- Combining various cannabinoids in specific ratios to elicit therapeutic effects of different kinds (including and not limited to sleep, pain relief, wakefulness, anxiety relief, allergy relief, ect.) in cartridges, topicals, water solubles, and sublinguals
- Utilization of a variety of food grade additives to sublinguals and topicals to enhance the rate of absorption and peak plasma levels of the target compounds
- Perform iterative trials on products being developed to achieve the highest quality version of any similar product on the market

Administrative

- Development of data-logging procedures to comply with Track-and-Trace regulations as well as keep track of any other pertinent metrics
- Designing and writing SOP's in accordance with city, state, and fire regulations
- Training and management of facility staff for various skills and positions to achieve desired metrics within the company and end product for the consumer