



Nitricity Inc.

Nitricity Role: Senior Process & Design Engineer

Company Overview:

For the past century, nitrogen fertilizer has been produced as ammonia (NH₃) in billion-dollar facilities located hundreds to thousands of miles away from growers who need it. The \$68B ammonia industry is responsible for 1.6% of global CO₂ emissions from the Haber-Bosch process. Immense market inefficiencies and safety hazards impact the distribution channel and lead to farmer's paying 2-5x higher than production costs, which are tied to volatile natural gas prices. As a result, inflated and inconsistent fertilizer costs often force the farmers to make decisions based on prices rather than crops. Furthermore, entrenched supply chains fail to reach developing economies, making fertilizer most expensive where it is most needed.

Nitricity provides universal access to nitrogen fertilizer by producing it on-site and on-demand. We seek to enable growers to have control over their own fertilizer supply and reduce their costs, all while mitigating CO₂ emissions. Nitricity's product generates nitrogen fertilizer on-farm for a competitive cost. We produce nitric acid and almost all types of nitrate fertilizer (calcium, potassium, magnesium, sodium, and nitrophosphates). We are building a world-class team of engineers to help us turn this vision into a reality.

Position Description:

The Senior Process & Design Engineer will be central in helping design and scale Nitricity's systems for optimized and cost-competitive fertilizer production. This person will leverage previous industrial design and engineering experience to help decrease the capital cost of Nitricity's fertilizer production assets. This position will involve computer-aided design, oversight of manufacturing, and optimization of chemical and mechanical subsystems for intermittent operation.

Responsibilities:

- Optimize the production operations for more efficient fertilizer production with increasing scale
- Redesign Nitricity's subsystems for cost-effective manufacturing
- Coordinate with Nitricity leadership to identify and procure manufacturing partners for subsystems
- Compile CAD portfolio and a bill of materials that helps Nitricity bring ideas from design to hardware
- Oversee and maintain manufacturing and engineering designs
- Support Nitricity's other engineering design and integration

Required and Preferred Qualifications:

- Process engineering or similar degree (ME, ChemE)
- Past experience designing and building production facilities and/or skid mounted chemical processes
- Experience transitioning prototypes to products
- Experience in design for manufacturability
- Process modeling and Solidworks or equivalent CAD design experience
- Versatility to thrive in a start-up environment
- Communication skills



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Location:

Primary location will be at Nitricity's headquarters in San Francisco. Nitricity just opened our formal headquarters at 3450 3rd St. Ste 3F, San Francisco, 94124 with quick access to downtown, the airport, Caltrain, and Interstate 280. Strict COVID-19 policies must be followed at all times.

Please submit an email cover letter and resume to josh@nitricity.co & nico@nitricity.co.

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