Job description

We want to hire a Research and Development Director to lead the global replacement of the Haber-Bosch process.

The fact is that 2-4 mill tons of ammonia is lost from European livestock farms every year. Lost ammonia means lost fertilizer which is essential to grow grain and feed the planet. Lost ammonia is a significant environmental challenge, and represents a major economic loss for the livestock farmer who needs to substitute lost nutrients through purchase of fossil fuel based nitrogen fertilizer.

N2 Applied has the solution for the agriculture industry, both financially for the livestock farmer himself and for the total environment. We urge you to look for more information at our web; http://fusionfarming.com/about-us/n2-applied-as/.
N2 Applied fixes nitrogen from air using plasma arc technology. The fixed nitrogen is added to manure – reacts – and stops ammonia losses. We call it "Fusion Farming". Fusion Farming enables the livestock farmer to recycle and produce his own nitrogen fertilizer on the farm with lower greenhouse gas emissions, improved resource efficiency and reduced cost. The livestock farmer will compliment and eventually substitute traditional fossil based industrial fertilizer. N2's distributed model will reduce fertilizer cost as well as reduce emissions from transporting fertilizers from petrochemical plants in the Middle East to the farmer.

N2 Applied is using Norwegian and international know-how and industrial experience to develop an energy efficient process for direct nitrogen fixation from air. N2 Applied's method apply modern process technology and the well-known electric arc principle developed by Professor Kristian Birkeland more than 100 years ago. Norsk Hydro was founded on the electric arc technology which N2 Applied now has further developed and adapted for distributed production of fertilizer on the farm.
N2 Applied's ambition is to develop a N2 reactor the size of a household fridge, install the reactor on the farm and produce NO gas based on air and renewable energy. A prototype reactor is already installed and in operation at our test center in Norway. N2 Applied holds patents related to energy efficiency of the reactor as well as its applications. Energy efficiency of the electric arc principle has been the main challenge for the fertilizer industry which consequently a century ago switched to the then more energy efficient, fossil fuel based chemical process called Haber Bosch.

The R&D Director - in cooperation with the CTO - will initiate and lead key R&D projects and will ensure that the R&D projects proceed per plan. This will include the following tasks:

- Responsibility for internal and external programs, projects and tasks
- Filling the role of manager and technical specialist in all technical fields
- Working in close cooperation with business development
- Being HR responsible for the scientific staff

Qualifications

- MSc or similar in chemistry, physics, biology and/or agriculture
- Minimum 10 years' experience in relevant technology fields
- Proven track record and results in research or project management
- Leadership experience

To succeed in this role we think you:

- have shown entrepreneurial attitude, curiosity and the drive necessary to make N2 a success whatever efforts needed
- have experience from operating in between big companies and reputed academic institutions
- have the ability to understand how complex projects shall be managed to impact the overall goal
- have analytical skills to separate worthwhile ideas from simply time- and money-thieves
- have shown good judgement in how to evaluate and manage technical people
- have enough models in your head to recognize, understand and pursue the establishment of projects and companies
- are an all-rounder, meaning that you need to cover all the basics – the experience to hit the ground running
- are able to be quite autonomic and flexible to work in a small organization

We offer

- This is a unique opportunity for the person who wants to decouple food production from the fossil cycle
- The test center is located in Svene, close to one of the most reputable cities for technology development in Norway; Kongsberg

Contact

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Application deadline: 30th April

Seniority Level

Director

Industry

- Farming
- Chemicals
- Renewables & Environment

Employment Type

Full-time