



(Jr.) Mechanical Engineer FT – Excellent learning environment with great opportunities.

Role overview description

(To start: **ASAP**, option to start from min. 4 Months duration internship *with possibility of extension/on-board*)

For the role at hand, the goal is to provide support to the mechanical development of SolvGE's next version of the hydrogen peroxide printer, an addition that will allow to make our printer completely *circular*. As a mechanical engineer at SolvGE, you will help on design, build and testing of this new addition and, if interested, provide mechanical advice on the energy generation cell system of SolvGE. This is to be supported with experimental hands-on work.

The COMPANY

SolvGE is a company focusing on novel and advanced technology for solving green energy and providing green energy global accessibility at ease. SolvGE recently has invented a patented technology leads to the world's first portable and scalable Hydrogen Peroxide Printer for global accessibility of Hydrogen Peroxide energetic chemical to the customer at ease irrespective of location and time. But it doesn't stop here, with this technology SolvGE aims at tackling the energy market by exploiting the energy within Hydrogen Peroxide in a safe and efficient manner.

- We offer great mentoring programs for our technology with quality and standard.
- We're on the cutting edge of novel technology in the field of green propellants with the sight in the future developments of energy generation through fuel cells and others.
- We believe in friendly/healthy working environment.

The POSITION and TASK at hand

We're looking for a **junior mechanical engineer intern** with interest in **sustainable and green energy technologies and ambition to design, build and test technologies for dehumidification through passive or other mechanisms**. The task at hand is to **design, build and test a dehumidification system**, which will allow to improve the current energy concentration process used by SolvGE in its Hydrogen Peroxide Printer. You will work alongside engineers to support experimental work and prototype implementation.

A bit more about what we will expect from your work:

- 0-5 yr. of relevant work experience in a **mechanical engineer position role**. (Startup experience is desired, but student teams are also valid)
- Experience or desire to learn about dehumidification techniques and water removal.
- Experience or desire to work with energetic materials such as hydrogen peroxide.
- Additionally you will do a small literature survey lead by SolvGE to get up to speed with the science behind SolvGE's technology.
- Assess and trade-off possible configurations for the dehumidification step, taking into account SolvGE's technology.
- Identify the ideal design and start the building of it using rapid-prototyping approaches such as additive manufacturing.
- Improve and optimize based on testing results.

- Provide mechanical expertise advice and support in the parallel technology developments on-going at SolvGE.
- The totality of the literature, trade-off and comparisons shall be reported duly, together with the desired final implementation prior to the experimentation phase.
- Once green-lighted and materials are available, you will have access to in-lab experiments to validate your results at the Aerospace Engineering (TUDelft) facilities.
- Opportunity to work with novel and challenging technology with the goal always in using our engineering abilities to make sustainable technologies for a better world of tomorrow.
- Remote working possibility.
- **Ability to be a team-player**, projects are SolvGE require of different expertise, so being able to communicate horizontally is **required**.
- Duration: indefinite contract with the possibility to start it with an **internship** of min. 4 months, extendable upon agreement.
- For more information, please contact us as some of the information is under confidentiality agreement.
- **English professional proficiency in reading, writing and speaking is required.**
- **The position is full time (35-40h. / week), to be started as soon as possible.**

The LOCATION

Our offices are located at the Innovation Hub at L&R faculty, TUDelft: 12th floor, Kluyverweg 1, 2629 HS Delft and our workshop will be at the Chemical laboratory of L&R faculty.

WHY SHOULD YOU APPLY?

- Opportunity to work with novel and challenging technology
- Excellent growth in knowledge and advancement opportunities
- Remote working opportunities
- We are a young start-up with high ambitions and a solid business case for our technology in the energy sector, *come help us SOLVe Green Energy!*

HOW TO APPLY?

Please send your application with your CV and Motivation letter at info@solvGE.com