

## We look for a Plasma Experimental Engineer

Spark is a young start-up developing clean hydrogen production units, with zero-CO<sub>2</sub> emission and a fraction of the electrical power of electrolyzers. We developed a unique **plasmalysis** process : non-thermal plasmas (controlled lightning!) extract hydrogen from (bio)methane, with solid carbon as a co-product. In the past two years, we have developed successive versions of our nanopulsed plasmalysis module. In 2023, we will be deploying a pre-industrial demonstrator by stacking 5 modules. We're looking for highly skilled engineers to join the team as we scale up!

Your mission (shall you accept it!) :

- Operate and improve the latest cell (V6, V7)
- Design future versions of the plasma reactor (V8), improving robustness, operation time, and scaling up the unitary size.
- Optimize the chemistry and energy efficiency of the reaction.
- Take part in the Factory acceptance test (FAT), Site acceptance test (SAT), and operation of the industrial demonstrator on the client site.

You will report to the CTO, have the support of one intern, and interact daily with the other plasma engineers, mechanical engineers, CentraleSupélec's Fab-Lab support, and our network of suppliers and integrators.

You are:

- An experienced experimental plasma physicist or engineer with expertise in operating plasma reactors and maintaining lab equipments (GC, RGA, etc.)
- Also experienced in plasma kinetic modelling and process optimization
- Keen to **learn, help and share** your expertise in a multi-expertise team.
- A conciliatory human but uncompromising when it comes to **safety**
- Most importantly, eager to take on one of the biggest challenges of our time: **decarbonize** our industry.

It feels like a fit ? Contact us!

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