Development of an optimization algorithm

Engineering Internship - Monaco

From 2000 to 2021, the Monegasque company Venturi established itself as a pioneer in high-performance electric mobility: breaking world records, undertaking expeditions in extreme environments, competing in Formula E, driving technological innovation, and creating iconic two- and four-wheeled vehicles.

Since 2021, Venturi Space (Monaco–Switzerland–France) has been extending this expertise to space exploration by designing mobility solutions for the Moon and Mars. As the strategic partner of the North American company Venturi Astrolab, Inc., the enterprise is developing critical technologies – hyper-deformable wheels, high-performance batteries, and advanced battery management systems – for Venturi Astrolab's lunar rovers FLIP and FLEX.

In 2025, Venturi Space unveiled MONA LUNA, a 100% European lunar rover designed to support the ambitions of ESA and CNES. In this context, the company is recruiting an engineering intern for a duration of 3 to 6 months.

In order to better anticipate the environment that rovers will face, tools for predicting and planning routes must be developed. Many features have to be taken into account to keep the rover on track : slopes, temperatures, battery SoC, motor torque...

YOUR MAIN RESPONSABILITIES

- Development of a multi-criteria optimization algorithm for route planning

REQUIREMENTS

- Engineer student with a generalist background
- Knowledge of optimization algorithms
- Interests in vehicles and/or space exploration
- Proactive and innovative mindset
- English communication capabilities

Ready to take on this technological and space challenge?
Apply now and submit your complete application (CV, diplomas, certificates) directly on our website www.venturi.space/en/careers and join us in this extraordinary adventure!

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+377 99 99 52 00 | info@venturi.space | www.venturi.space

GILDO PASTOR CENTER | 7, RUE DU GABIAN • 98000 MONACO