

INTERNSHIP / PARIS, FRANCE PHOTONICS ENGINEER M/F

1 OUR MISSION

We believe in a future where nature and technology could blend, to address the next technological challenges.

Woodoo is specialized in groundbreaking biomaterials based on the structural transformation of wood at the molecular level. Our wood materials can be translucent and tactile, or 4 x sturdier and weather resistant, with applications in automotive, aeronautics, luxury or consumer electronics. We are here to help the industry reduce its carbon footprint by providing alternatives to carbon-emissive materials. We strive to produce renewable materials from regenerative forestry. Woodoo has won more than 40 major international and national awards (from MIT, World Economic Forum, Horizon H2O2O, Solar Impulse Foundation...).

2 JOB DESCRIPTION

Woodoo Optics Team is looking for an Intern in Optics/Photonics (M/F) **to help with development and optimization of the performances of our products.** Your main objective will be to improve the display quality of light signals through a new innovative material, the "Woodoo Slim". To do this, you will have to develop optical measurement manipulations and the necessary algorithmic tools to exploit these measurements. You will work closely with our R&D team (Chemistry/Materials) in Troyes (10) and the Mechatronics and Optics team in Paris (75).

- Investigate the different technical solutions that can be considered
- Identify the optical architecture that meets the requirements
- Create and operate the optical set-ups to characterize the Woodoo material
- Manufacture, test and improve prototypes in an iterative innovation process
- Manage and coordinate suppliers in France and abroad
- Contribute to the enhancement of the optical properties of the material

3 YOUR QUALIFICATIONS

You are a student with a scientific background, specialized in optics (IFIPS, Institute of optics, ...)

- You have prior experience in the design of optical systems (display systems, photometry, instrumental optics, optical characterization of matter, ...)
- You know a programming language for scientific computing (Python, Matlab/Octave, ...)
- You have notions in electronics and mechanics
- Initiative, autonomy, pragmatism and relational skills are part of your DNA
- You have an appetite for new technologies
- You want to work in a dynamic startup. You are curious, not only about new technologies but also in many fields in general



SME Instrument
Phase 2



European Innovator
of the year



Fulbright for the
Future Prize



World Alliance Award



Global Shapers Award



SME Innovation
Associate

4 FEELING LIKE JOINING OUR TEAM?

Please send us your resume and detailed motivations to antoine@woodoo.com

To apply directly on our website, [click here](#)

For faster internal processing, please name your documents as the following: Forename Surname_CV or CL.

Feel free to add any miscellaneous document that can support your application. We will make sure to review your application and get back to you as soon as possible.

Woodoo is committed to building a diverse team and an inclusive environment where all employees belong. Women, gender-expansive individuals, people of color, of all ages, individuals with disabilities, and LGBTQ+ candidates are strongly encouraged to apply.



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