

E2 Drives is an innovative engineering company that is redefining electric mobility. The company's expertise spans mechanics, electronics, electric motor design, and embedded control systems. It has developed a patented and disruptive powertrain technology for electric bikes, integrating an automatic gearbox into a powerful all-in-one solution. Following a strategic partnership with Decathlon, E2 Drives aims to become a global leader in eBike motor technology within the next decade.

After successfully launching its first-generation motors, E2 Drives is now focused on developing its second-generation drive units. Based in Wavre, near Brussels, E2 Drives currently brings together 25 passionate and dedicated professionals.

For more information, please visit their website: <https://e2drives.com/>

To support their growth, we are looking for a **Senior Mechanical Design Engineer (M/F)**.

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RESPONSIBILITIES

As a **Senior Mechanical Engineer**, you will play a key role in shaping the next generation of drive units while contributing to innovation projects. You will provide technical oversight, challenge design decisions, and ensure the robustness and reliability of our mechanical systems. Reporting directly to the Mechanical team lead, your analytical insights will guide critical decisions regarding the performance, manufacturability, and durability of our components.

Your main responsibilities are:

- Lead the design and development of transmission components (gears, shafts, bearings, etc.) within our drive units.
- Perform in-depth analysis to evaluate the performance and reliability of mechanical designs and identify opportunities for improvement.
- Participate in design reviews, offering expert insights and challenging assumptions to ensure optimal engineering outcomes.
- Oversee collaboration with suppliers to ensure designs are optimized for manufacturing and aligned with our quality and cost objectives.
- Stay abreast of the latest trends in electric mobility, transmission technology, and mechanical design, integrating new methodologies into our projects.

PROFILE

- You hold a Master's degree in Engineering or a specialized mechanical design discipline.
- You have proven experience with transmission systems, including motors, gears, bearings, shafts, and their mechanical loads.
- You possess strong proficiency in CAD tools (SolidWorks, etc.) for modelling and creating engineering drawings.
- You demonstrate extensive knowledge of Design for Manufacturing (plastic injection, aluminium die-casting) and the ability to collaborate effectively with suppliers.
- You have expertise in GD&T standards and a keen eye for detail in creating accurate and clear drawings.
- You are fluent in English, with working proficiency in French being an advantage.

OFFER

- A senior role within an ambitious, high-potential start-up.
- A chance to shape the future of electric mobility and contribute to a company with global ambitions.
- A dynamic, human-sized team with a focus on excellence.
- An attractive compensation package and a permanent full-time contract.

INTERESTED ?

Please send your CV together with an adapted cover letter to recruitment@pahrtners.be

YOUR APPLICATION AND
RELATED INFORMATION WILL REMAIN
STRICTLY CONFIDENTIAL.