

Position	Junior Mechanical Engineer	Starting Date	~ June 2025
Duration	Permanent	Workload	80-100%
Location	1350-Orbe, CH	Gender	Any

Job overview

The Countdown Company is offering an open position for a junior mechanical engineer willing to take on a wide spectrum of challenges spanning over multiple industries.

The candidate will participate in the development of tailored mechanical systems, involving multiple aspects of mechanical engineering.

Projects' scope varies from optimizing existing machinery to developing new special machines, requiring teams from one to three engineers. The candidate is expected to work on several projects in parallel.

Working environment

The Countdown Company is a mechanical engineering office developing tailored mechanical systems for the aerospace, watchmaking and food industries.

We promote proximity between the different fields of mechanical engineering, offering a unique opportunity to perform hands-on work in a non-corporate and pluridisciplinary environment. We also encourage employees to explore all phases of a project's development process.

The Company's facilities are located in Orbe, Switzerland. With a workshop on the ground floor and an office on the first floor, all tools required for product development are vertically integrated.

Find out more about The Countdown Company on our [website](#) and on [LinkedIn](#).

Application process

Contact us at info@tcdc.ch with a resume and a motivation letter.

“Join us to tackle the industry's most complex challenges.”

Responsibilities

The candidate will have the role of mechanical engineer on several projects:

- Support the development of mechanical systems, ensuring compliance with specifications and quality standards.
- Take part in all engineering phases of system development: specification, design, analysis, manufacturing, testing and commissioning.
- Explore all mechanical engineering fields in system development: structure, drive, pneumatics, hydraulics, automation, and safety.
- Use CAD software to draw detailed designs, drawings, and complex assemblies.
- Dimensioning of mechanical structures and elements.
- Conduct feasibility studies and analysis to evaluate design concepts.
- Prototype and test mechanical components and assemblies to validate design concepts and performance criteria.
- Identify and mitigate technical risks and proactively resolve technical issues and conflicts.
- Support in the definition of specifications and architecture for mechanical systems and sub-systems.
- Take part in design reviews, project meetings, and cross-functional discussions.
- Support planning and participate in manufacturing, assembly and integration activities.
- Support sales team to determine potential project feasibility and provide costs breakdown.
- Interact with suppliers.
- Prepare technical documentation (presentations, reports, manuals, procedures, ...).
- Stay updated on industry trends, emerging technologies, and best practices in mechanical design and manufacturing.

Basic qualification

- Bachelor's degree in mechanical engineering or related field; Master's degree and/or polymechanic formation are preferred.
- Participation in a complex product's development, demonstrating technical excellence.
- Proficiency in French and English, German is a plus.

Preferred skills and experience

- Experience with SolidWorks (incl. PDM).
- Knowledge of Finite Element Analysis (FEA) for structural analysis
- Strong understanding of mechanical principles, materials, and manufacturing processes.
- Experience in a workshop environment.
- Experience with prototyping, testing, and validation of mechanical components and systems.
- Excellent problem-solving skills and attention to detail, with a focus on delivering high-quality solutions.
- Knowledge of Swiss suppliers for mechanical parts and services.
- Ability to work effectively in a collaborative team environment, with excellent communication and interpersonal skills.
- Familiarity with product development processes, from concept to production.
- Good organizational skills, working on several projects in parallel.
- Experience with at least one industry standard (i.e. CE, FDA, IEC, ECSS, ...).
- Driving license (cat. B) recommended; cat. BE is a plus.