

Position	Senior Mechanical Engineer	Starting Date	~ January 2027
Duration	Permanent	Workload	80-100%
Location	1350-Orbe, CH	Gender	Any

Job overview

The Countdown Company is offering an open position for a senior mechanical engineer capable of taking on a wide spectrum of challenges spanning over multiple industries.

The candidate will be given the responsibility of leading several projects technically. Experience will be key to ensuring timely delivery of high-quality solutions within project budgets.

Projects' scope varies from optimizing existing machinery to developing new special machines, requiring teams from one to three engineers.

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](https://www.tcdc.ch) and on [LinkedIn](https://www.linkedin.com/company/tcdc).

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

Firstly, the candidate will have the role of lead engineer on several projects:

- Identify and mitigate technical risks and proactively resolve technical issues and conflicts.
- Define specifications and architecture for mechanical systems and sub-systems.
- Perform tradeoffs and take critical technical decisions.
- Ensure compliance with specifications and quality standards.
- Lead design reviews, project meetings, and cross-functional discussions.
- Lead all engineering phases of system development: specification, design, analysis, manufacturing, assembly, testing and commissioning.
- Lead all mechanical engineering fields in system development: structure, drive, pneumatics, hydraulics, automation, and safety.
- Validate designs and dimensioning of mechanical structures and elements.
- Mentor and coach team members, fostering a collaborative and innovative work environment.
- Negotiate with suppliers.
- Support sales team to determine potential project feasibility and provide costs breakdown.

Secondly, as a mechanical engineer:

- Use CAD software to review detailed designs, drawings, and complex assemblies.
- Conduct feasibility studies and analysis to evaluate design concepts, ensuring compliance with technical specifications, industry standards, and regulatory requirements.
- Derisk, conceptualize and plan manufacturing, assembly, integration and testing activities. Troubleshoot issues and implement solutions to resolve challenges.
- Stay updated on industry trends, emerging technologies, and best practices in mechanical design and manufacturing.

Thirdly, if the candidate is interested in project management responsibilities (optional):

- Manage engineering projects from initiation to completion, ensuring compliance with project timelines, budget, and quality.

- Define project scope, goals, and deliverables in collaboration with stakeholders.
- Develop detailed project plans, schedules, resource allocation plans, and manage invoicing.
- Monitor project progress and provide regular updates to stakeholders, including project status reports and presentations.
- Estimate, track and negotiate contract changes.
- Ensure clear communication within the team and with the client.

Basic qualification

- Bachelor's degree in mechanical engineering or related field; Master's degree preferred.
- 8+ years of professional engineering experience in mechanisms or industrial machine development.
- 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.
- Experience with at least one industry standard (i.e. CE, FDA, IEC, ECSS, ...).
- Participate in several projects in parallel (3+) and lead engineering teams (5+ members).
- Driving license (cat. B) recommended.