

<b>Position</b>	Mechanical Analyst	<b>Starting Date</b>	1st June 2021 (or later)
<b>Duration</b>	2 - 12 months	<b>Workload</b>	50-100%
<b>Location</b>	1350-Orbe, CH	<b>Issue Date</b>	19.05.2021

## Description

The Countdown Company is offering an open position for an analyst engineer capable of taking on a wide spectrum of challenges spanning multiple industries such as space, aeronautics, automobile and automation. The candidate will be expected to perform analysis tasks for various projects within the company. She or he will demonstrate competencies with common engineering software and scripting languages. The candidate is expected to be autonomous and structured in their work and have a "can do" attitude when faced with new challenges.

## Responsibilities

The candidate shall be asked to:

- Jump in complex systems and identify the key elements to analyze
- Perform FEM analysis (ANSYS, Hypermesh, MSC Nastran):
- Mechanical : static, modal, dynamic, assembly interactions, (opt.) buckling
- Thermal and thermo-mechanical (opt.)
- Electro-magnetic (opt.)
- Perform and automatize data analysis with MATLAB, Python and Excel
- Validate structural designs through analytical static and dynamic analysis
- Propose informed modifications to designers
- Document the work in technical reports and presentations

## Profile

- Master in mechanical engineering
- Self-motivated person, having participated in technical extra-curricular projects (student teams), or having completed exceptional personal technical projects involving hands-on work related to position.
- Can demonstrate prior experience with software named above.
- Work efficiently and autonomously in projects requiring multiple engineering skills
- Interest for the aerospace industry is recommended

## Working environment

The Countdown Company promotes the importance of the proximity between designers, analysts, systems engineer, manufacturer and test engineers. We even push these boundaries further by giving the opportunity to the employee to explore all the phases of the development process of a project: from defining the specifications to designing, analyzing, manufacturing and assembling, all the way to testing and reporting.

This is a unique opportunity to perform hands-on work in a non-corporate and pluridisciplinary environment, covering projects for different industries: space, aeronautics, healthcare, automobile, and industrial robotics. In addition, the employee will have the opportunity to experience first hand the sales and management process of technical projects.

The Company's facilities are established in Orbe, Switzerland. Our offices are located in the loft area of a garage space. Products are designed, engineering services are provided and the whole company is run all within this area. Our workshop is located on the ground floor, with all the necessary equipment for machining and integration.

## Application process

1. Documents to prepare:
  - o CV
  - o Motivation letter
  - o Project portfolio (opt.)

2. Fill the form:

<https://forms.gle/wChctyqvQCWc1Ugg9>