

CERN Accelerating science

Mechanical Engineer

Apply before: 16/03/2026 at 23:59 (Geneva Time)

Contract duration (in months): 24

Job flexibility: Fully Onsite

Documents to complete your application

- Your CV (English or French)
- A copy of your most relevant diploma or a certificate of achievement from your school (if you don't yet have your paper diploma)
- Any document you consider relevant to your application

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What you'll do

As a Mechanical Engineer, you will join the multidisciplinary Future Projects team working on R&D for the alignment of Future Circular Collider (FCC) components. You will develop mechanical and mechatronic adjustment and support systems requiring high vibration stability and micrometric precision.

Responsibilities include the design and integration of component support structures, supporting jacks, adjustment platforms, alignment sensors, and associated infrastructure, contributing to the precise positioning and frequential-domain stability of accelerator components.

Eligibility criteria

- You are a national of a [CERN Member State or Associate Member State](#).
- By the application deadline, you have a master's degree with 2 to 6 years of professional experience since graduation or a PhD with a maximum of 3 years of professional experience since graduation. You are not eligible with only a bachelor's degree.
- You have never had a CERN fellow or graduate contract before.
- Please pay attention to the additional criteria and requirements for this specific position and mentioned above.

Your profile

- Experience in mechanical engineering, mechanical design and manufacturing drawings.
- Experience in the design, assembly and testing of mechatronics systems.
- Experience in structure modal analysis via Finite Element Methods.
- Strong team-oriented attitude with the ability to collaborate effectively within multidisciplinary environment.
- Excellent verbal and written communication skills, with the ability to produce clear, detailed documentation
- Your studies focused on Mechanics, Mechatronics or related field.

Your skills

- CAD software (preferably CATIA V5), including 3D Design and technical drawings.
- FEM analysis (preferably ANSYS) - static and modal analysis.
- Spoken and written English, with a commitment to learn French.

Your responsibilities

- Gathering of design requirements and preparation of functional specifications.
- Designing mechanical support and alignment/adjustment solutions, including vibration and stability analysis in the frequency domain (modal response, transmissibility, and resonance evaluation).
- Integration of the proposed solutions into accelerator integration models, including interface alignment with system-level constraints, along with cost estimation for the proposed solution.
- Follow-up, in close collaboration with other teams, of the manufacturing, assembling and qualification of prototypes.
- Preparation and presentation of technical reports, calculations and engineering notes.
- This role includes team supervision responsibilities.