

## Lead Mechanical Engineer

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Company: SABCA

Location: Brussels

Category: architecture-and-engineering

Are you one of those people who look up to the sky every time a plane passes by?

Space holds no more secrets for you than it does for science?

Environmental and technological challenges are among those you wish to tackle?

**Come join Sabca** and play your own role in the fast-moving world of aerospace inside a company with more than years of existence.

We are experts in designing, manufacturing, maintaining, and upgrading large and complex elements for aircraft and space launchers.

In Brussels, we have our Structural and Mechatronics Engineering offices, where all our new programs begin and our workshops are equipped with modern

machines that produce complex metallic assemblies for aircraft and space launchers as well as advanced Thrust Vectoring Systems for space launchers.

SABCA Brussels is also the home to our Unmanned Autonomous Systems aka: the drones solutions unit!

### **Mission**

Design electromechanical actuation systems for aerospace applications.

The person shall lead a team of CAD designer(s), stress engineer(s), and test engineer(s), to achieve the desired result.

Strong focus on designing constituent parts of the mechanisms for long life and maintenance-free operations.

The various tasks to perform, from top-level specifications of a product (e.g., an actuator), are

Issuing specifications for components and sub-assemblies.

Establishing lifetime predictions.

3D design of the product.

Supervision of detailed drawings.

Product dimensioning wrt loads.

Supervision of finite element studies.

Technical follow-up of subcontracted mechanical components.

Follow up of the requirement validation.

Problem support on issues raised during testing.

Cooperate and take responsibility at its level regarding ISO

### **Required knowledge**

Knowledge CATIA V5 - 3D design module and stress analysis module.

Deep knowledge of mechanisms such as roller screws, gear trains, anti-rotation systems, etc.

Effective applied knowledge of tribology and lubrication in similar long-life applications.

Knowledge of aerospace norms regarding mechanical system design.

Knowledge of finite element software (NASTRAN, SAMCEF) is a plus.

### **Required experience**

10-year experience in mechanical system design.

Experience in aeronautical systems is desired.

Having design from scratch one similar piece of equipment in aeronautics, space, automotive, or rail industries.

## Travel

Short missions in Europe.

## Languages

English required.

French and/or Dutch is a plus.

## So, What's in it for you?

**Experience!** Gain new experience to thanks to the full range of services we offer to the civil, space and military aviation markets as well as to the commercial Unmanned Autonomous Systems (drones). Our activities include designing, manufacturing, maintaining, and upgrading large and complex elements for aircraft and space launchers for customers and partners belonging to the elite of the aerospace industry.

**Excitement!** Work in an exciting environment where long-standing expertise and research and technological development feed off each other.

Sabca collaborators have their passion and their know-how as common denominator.

Teamwork, reliability and innovation are part of the culture we value and that lead us to success.

**Challenges!** Help Europe access to space by designing and manufacturing rocket structures.

Be part of the pioneers in developing advanced air mobility solutions inside our division dedicated to drones. Use your knowledge to take people around the world on board low-carbon aircraft.

Contribute to the environmental and technological challenges of the century. Play your own role in the fast-moving world of aerospace.

**Be ready for take-off!**

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