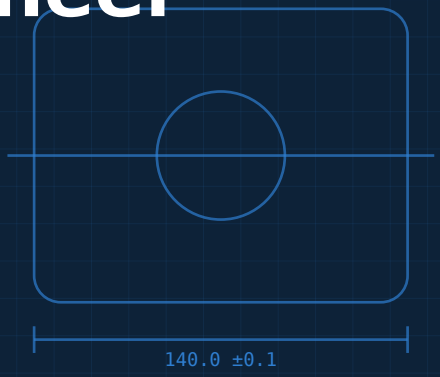
// CAD · ENCLOSURES · DFM

Mechanical Design Engineer

Job description · Open position

Updal Solutions | Upplands Väsby, Sweden | Full-time or via partner network



// INTRODUCTION

The role

Do you enjoy turning a product idea into parts that can actually be molded, assembled and shipped? As our Mechanical Design Engineer you will own the mechanical side of connected and electromechanical products, from concept and prototypes to tooling, validation and production support. You will work closely with our electronics and firmware engineers and with suppliers and contract manufacturers.

Develop mechanical components and assemblies for connected products and other electromechanical systems — with a focus on injection-molded plastic parts and precision enclosures, from concept and prototyping through tooling, validation and production support.

// ABOUT UPDAL

Who we are

Updal is a Swedish engineering group based in Upplands Väsby, north of Stockholm. We design, sell and distribute IoT products across Europe, among them S-2Connect®, our indoor climate and mould monitoring for housing and buildings. Through Updal Solutions we support companies with specialist engineering, from hardware, firmware and cloud to certification, testing and lifecycle support. Updal Green Energy builds our energy and EV charging business, and Updal Investment owns stakes in Swedish and UK technology companies.

We are a small, senior team that works closely with a wider partner network of independent specialists. That keeps us fast and hands-on: you work on real products, close to customers, suppliers and manufacturers, with short decision paths and plenty of room to take ownership.

// MAIN DUTIES

Key responsibilities

- Translate product requirements into mechanical specifications, detailed 3D models, assemblies and production-ready drawings.
- Design injection-molded plastic parts, sheet-metal components and machined parts. Select materials, define tolerances and communicate design intent through GD&T where appropriate.
- Apply design for manufacturability, assembly and reliability principles to improve product robustness, increase production yield and simplify assembly.
- Perform tolerance stack-up analyses and support structural and thermal validation. Investigate mechanical failures and production issues, identify root causes and implement corrective design changes.
- Work with tooling suppliers and contract manufacturers on tool design reviews, prototype builds and first-article evaluations. Support the design of fixtures and test equipment as needed.
- Lead mechanical design activities during transfer to production. Maintain drawings and design documentation in the product data management system and support engineering changes throughout the product lifecycle.
- Contribute to design reviews, risk assessments and DFMEA. Support quality-system requirements and product conformity and certification activities, including UL and CE where relevant.

// WHAT WE'RE LOOKING FOR

Skills and experience

- SolidWorks
- 3D CAD
- PDM
- GD&T
- Injection molding
- Sheet metal
- DFM/DFA
- DFMEA
- UL / CE

- Degree in mechanical engineering or a related field and at least four years of mechanical design experience in electromechanical product development.
- Hands-on experience designing injection-molded plastic parts and working with suppliers through tooling and production.
- Proficiency in SolidWorks or an equivalent 3D CAD tool. Experience with a product data management system is desirable.
- Practical knowledge of material selection, tolerance analysis, and design for manufacturing and assembly.
- Experience working with cross-functional engineering teams and external manufacturers during prototyping, validation and production.

// WAYS TO WORK WITH US

Employment options

Full-time employment at Updal Solutions in Upplands Väsby.
Via our partner network as an independent sub-consultant in Mechanical Engineering, working with us on an hourly or project basis. See updal.se/partnernetwork.

// APPLY

Sounds like you?

Send us your CV and a few lines about yourself through the job page: updal.se/careers/mechanical-design-engineer. We read every application.

We handle your application in line with GDPR. Your name, CV and details are only used for recruitment, are never shared outside Updal without your consent, and are deleted after 24 months at the latest. Read more at updal.se/privacy.