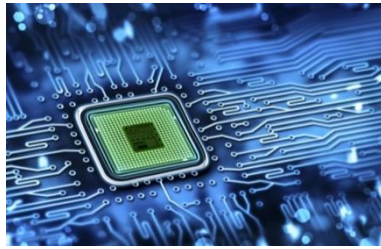




PASSION. PRECISION. PURITY.



## INTERNSHIP

# 3D Model Based Engineering - Manufacturing Process

## Drawing Free Operating along the whole Supply Chain

Are you looking for an opportunity to obtain valuable experience in an industrial environment, during or after your technical education? Here is one of many interesting topics we have on offer.

Innovation has always been the driving force at VAT since the company was founded over 50 years ago. This has made us the world leader in vacuum valves and vacuum sealing technology. This pioneering spirit motivates us daily to meet our customers' requirements with enthusiasm. Together with our employees we stand for passion, innovation and quality. VAT is headquartered in Haag (Switzerland) and employs approximately 2 000 people worldwide. VAT has production centers in Haag (Switzerland), Penang (Malaysia) and Arad (Romania) as well as a production facility in Xinwu (Taiwan). With our customers mainly being situated in the United States and Asia, this provides a great opportunity to start an international career in a globalized company.

### *What you will explore:*

Industry 4.0 is gaining more and more interest in the manufacturing industry. Model Based Engineering and Manufacturing based on 3D geometry information is only one exciting aspect with high potential for VAT. To speed up throughput times in product design and manufacturing process we are looking for an innovative spirit with excellent CAD-CAM-Product Data Management (PDM) experience and process thinking skills. Final target of your work will be a proof of concept in partial aspects for using 3D models instead of 2D drawings along the whole supply chain from the early stage of order winning up to the point of using the model based information in the assembling and maintenance field by considering new innovative technologies. Your responsibility will cover the whole product development process starting with the collection of ideas together with our engineering & operation team, define and evaluate concepts, build up a model-based simulation and finally test the solution.

- Analysis and Concept Development
- Description of today's and future process/engineering tool landscape
- Verify concept by executing a pilot project based on real 3D CAD models (Focus: Engineering – Manufacturing – Quality - Assembling)
- Feasibility studies and potential analysis
- Economic calculation and Executive Summary (Presentation)

### *What you will need:*

- Practical know-how in design & manufacturing processes (project references)
- Knowledge of CAD-CAM tools and system integration experience
- Excellent concept writing skills
- Strong holistic thinking

### **Are You Ready for the Challenge?**

We are looking forward to receive your **electronic application sent to Jochen Magnes.**

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