



INTERNSHIP / MASTER THESIS

Unraveling the Secrets of Elastomers

Are you looking for an opportunity to write your thesis in an industrial environment or obtain valuable industry experience, during or after your technical education? Here is one of many interesting topics we have on offer. We are also very open to your own ideas in order to create a matching opportunity for you at VAT.

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. It 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.

What you will explore:

Elastomers are the most important component in the process chambers of the semiconductor fabs. They are key to the success of the chemical and physical processes occurring in vacuum. Due to their critical function, the careful selection of the correct elastomeric material for each application is highly needed. You will develop insights into these materials by running specific tests to measure their chemical and physical properties to unveil their process performance and suitability. This has to be done in collaboration with the university partner as you should also spend time in the university facilities (analytical labs) as well as in VAT's LAB. With the generated data, you will support the creation of a decision matrix database, which will be of utmost importance for VAT and for the semiconductor fabs manufacturing microchips (Intel, Samsung, etc.).

What we offer:

- Practical experience in the growing semiconductor industry and in a global environment
- Support by and coordination with experienced scientists
- Fast-paced and international work environment
- Content & scope of this thesis may be discussed and defined in further details

What you will need:

- Chemical / Material engineering background
- Knowledge in polymeric/elastomeric materials beneficial
- Ability in project planning and execution
- Willingness to learn and apply new techniques
- Proactivity

Are You Ready for the Challenge?

Then we look forward to receiving your **electronic application sent to Robert Spasov or Stefano Caimi.**

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