

R&D Mechanical Engineer Internship - Turbo Molecular Pumps

JOB DESCRIPTION SECTION

Agilent inspires and supports discoveries that advance the quality of life. We provide life science, diagnostic and applied market laboratories worldwide with instruments, services, consumables, applications and expertise. Agilent enables customers to gain the answers and insights they seek, so they can do what they do best: improve the world around us. Information about Agilent is available at [agilent.com](https://www.agilent.com).

The Vacuum Product Division of Agilent leads the development and manufacturing of [Vacuum Products](#) (such as Turbo Molecular, Ion and Primary pumps as well as related vacuum accessories including a Mass Spectrometer Leak Detector). As our new R&D Mechanical Engineer Intern, you will be joining our dynamic R&D engineering team in Torino (Leini).

This internship will be aimed at deepening your knowledge on a specific accessory of our Turbo Molecular Pump (TMP): the vibration damper. The core of this internship will be the development of the theoretical model (simulation), followed by its tuning using experimental data with the final goal of validate the model.

Your main responsibilities will be:

- Starting from a deep investigation on the technical literature and papers already available, develop the theoretical model of a TMP's accessory
- Tune and validate the model using the experimental data working close to other R&D Engs. and evaluating together if other info are required
- Perform modal analysis
- Interact and manage relationship between internal R&D team and university officials
- Ensure all the outputs are well-documented (reports) and recorded into the system.
- Share the results with the technical team.

This is a **6 months internship** (potentially renewable for another 6 months after graduation) based in our plant in **Torino** (Leini), starting ideally in **January** or **February 2025**.

QUALIFICATIONS SECTION

We are looking for an highly-skilled individual with the following background:

- **Currently completing a final year of Master's Degree in Mechanical or Aerospace Engineering**
- Ideally, the possibility to complete another 6 months internship after graduation
- Good level of **English** and proficiency in **Italian** is preferred.

On a personal level, you are **proactive, organized** and **eager to learn**. You also have excellent **interpersonal** and **communication skills** to interact with many external and internal partners. You enjoy working both **autonomously** and **as part of a team**. You show a **real can-do attitude** and **curiosity**, with an **active approach to problem solving**.

We offer:

- An opportunity for you to make a significant impact in a world-class company and develop your skills
- A role among passionate colleagues, in a growth orientated and inclusive environment. You will become part of a caring and fast paced environment, built on integrity, sharing and trust
- The chance to be part of a company where we value quality in the solutions we deliver to our customers, with our employees and in relation to the processes we work with.
- Career development opportunities in an international company
- Competitive compensation
- A commitment to work/life balance.

We will make sure you get all the training and development opportunities you need to become the best in your field!