

Equipment Engineer (m/f/d) Vacuum Processes and Vacuum Technology

All-round engineer (m/f/d) with enthusiasm for the maintenance of vacuum process equipment and for the development of vacuum processes for research in microelectronics

You will work in an international team that is shaping our future with its research in microelectronics. You will be responsible for the vacuum process equipment in our research-oriented company, establish process control for vacuum processes and develop new processes for our PVD sputtering process tools. It is just as important to us that you carry out your work effectively as that you work independently or as part of a team, depending on the specific task.

Your tasks:

- Guarantee/Assure the operation of vacuum process equipment and the associated exhaust gas cleaning as well as the process cooling water of the process systems in the clean room.
- Independent work scheduling, execution and documentation of all actions for maintenance, technical function checks, repairs and fault elimination in the assigned area.
- Implementation of processes and process development for the PVD sputter cluster tools for dielectrics and metal films deposition in the clean room.
- Establishing and follow-up of process control for the PVD sputter cluster systems and transfer of the process control to other process systems.
- Carrying out minor repairs and maintenance works on other process systems.
- Organization and preparation of technical purchase orders regarding vacuum techniques for process equipment.
- Assisting with the conversion or relocation of systems, in particular but not limited to vacuum equipment.
- Support in the supply with required consumables as well as professional disposal of used goods.
- Shaping the transformation of the company into a sustainable future.

Your Qualification:

- Degree in electrical engineering or a comparable scientific or technical degree.
- Several years of experience with process equipment and processes in microelectronics or related technologies.
- Experience of working in a laboratory, clean room and vacuum equipment environment.
- Professional German and, if possible, English (communication within the company often takes place in English).
- Participation in flexible on-call duty for the building.

We offer:

- The opportunity to work in a company with unique technology possibilities and a dedicated team.
- A constantly evolving work environment and the opportunity to develop both, your personal and professional skills.
- A salary comparable to TV-L.

- Flexible working hours

NaMLab gGmbH is a research facility and an affiliated institute (An-Institut) of the Technische Universität Dresden. We conduct industry-oriented and fundamental research in the field of materials science for electronic devices. Based on our core competence in dielectric materials for semiconductor devices, we focus on the integration and application of materials for reconfigurable and energy-efficient microelectronic devices. The approach of placing the device and not the material system itself in the center of our research activities distinguishes NaMLab gGmbH from other materials research facilities in Dresden.

For the realisation of test structures and microelectronic components, we operate a cleanroom in our research building with 270 m² of cleanroom class 6 and 50 m² of cleanroom class 5 (EN ISO 14644). With our core competence in material development, we operate fifteen different processing systems in this clean room for our research work, including various deposition equipment, commonly based on vacuum processes. These include two PVD sputter cluster systems for the deposition of dielectrics and metal films. The applications explored with these equipments concern both the further development of, for example, the ferroelectric properties of thin films based on hafnium oxide and metall films for the realization of capacitor structures and the wiring of transistors.

If we have drawn your interest? Please submit your application documents with the keyword "Vacuum Equipment Engineer" to:

jobs@namlab.com

We offer the opportunity to make yourself familiar with the broad work spectrum. NaMLab gGmbH aims to increase the fraction of women in science and technology and explicitly encourages applications from women .

If you have any questions - please do not hesitate to contact Dr. Alexander Ruf:

alexander.ruf@namlab.com