



The **Swiss Nanoscience Institute (SNI)** is a center for excellence in nanoscience and nanotechnology, leading the way in education and research, as well as in knowledge and technology transfer in north-western Switzerland. Its continued success relies on an established network of the most important research institutions in the region.

As part of our **Nanotechnology Center** at the University of Basel, the SNI runs a **Nano Fabrication Lab**, consisting of clean-room facilities and state-of-the-art nano fabrication equipment. We now seek a clean-room manager to lead and manage the operations of the **Nano Fabrication Lab** as

Head of nano-fabrication and clean-room facilities (100%)

The successful candidate will be responsible for the operation of the nano-fabrication and clean-room facilities and will work with our team of scientists, students, and technicians with expertise in quantum and nano science, materials science, and nano-fabrication.

Main duties and responsibilities:

- Ensuring the smooth and efficient functioning of the facilities and equipment therein.
- Managing all activities in the facilities, including leading a small technical staff and coordinating the users responsible for equipment.
- Assisting and advising users in the design of nano-fabrication processes.
- Managing orientations of the facilities (safety training, general operation principals).
- Working with SNI users to compose and maintain standard operating procedures.
- Ensuring that proper safety procedures are followed within the nano-fabrication facilities.
- Scheduling periodic maintenance for equipment and ordering supplies to ensure continuous operation (evaporation sources, process gases, etc.).
- Managing the procurement and installation of new equipment.
- Managing cleanroom budget in consultation SNI management.
- Participating actively in writing equipment proposals to acquire new tools.

Desired profile:

- Strong working experience in the cleanroom is required, including in a subset of the following:
 - Clean-room processes such as lithography (e-beam and optical), plasma etching (ICP/RIE), wet etching, thin-film deposition, etc.
 - Photonics, nano-electronics, or materials science.
 - Nano-fabrication of diamond, van-der-Waals materials or semiconductor heterostructures.
- Ph.D. degree in physical sciences is preferred.
- Working experience as a cleanroom manager in an industrial or academic lab is highly desirable.
- Open-minded, solution-oriented, communicative, critical, and innovative.
- Leadership skills and ability to work collaboratively on multiple projects.
- The ideal candidate has a working proficiency in English and German.

We offer:

- A versatile job in a dynamic and internationally active Swiss research institution.
- Independent and varied work at the cutting-edge of quantum and nano-science

Application/Contact:

We look forward to receiving your application containing a cover letter, a CV, and at least two references by January 23, 2022. Please apply via email by sending a PDF document to claudia.wirth@unibas.ch. Please contact Ms. Claudia A. Wirth, the Business manager of the SNI, should you have any questions.