

8 open positions in the 2018 Nanoscience PhD program

Please apply online at www.phd.nanoscience.ch
the latest by 31 December 2018 - the decision to fill the vacancy can be taken any time from now

The Swiss Nanoscience Institute (SNI) at the University of Basel invites highly motivated young scientists to apply for the SNI PhD program in Nanoscience. The eight successful PhD candidates will join an attractive research program together with the ~30 currently supported scientists. The available positions cover a wide variety of topics, including cutting edge quantum physics and chemistry, material science, nanotechnology, biochemistry and cell biology.

The SNI is funded by the Canton of Aargau and the University of Basel to perform cutting edge research in nanoscience and nanotechnology. The SNI PhD program was established in 2012 to support doctoral students in nanoscience at the University of Basel.

Open positions:

- Bioinspired nanoscale drug delivery systems for efficient targeting and safe in vivo application
- From Schrödinger's equation to biology:
Unsupervised quantum machine learning for directed evolution of anti-adhesive peptides
- Nanoscale mechanical energy dissipation in quantum systems and 2D-materials
- Picoscopic mass analysis of mammalian cells progressing through the cell cycle
- High-throughput multiplexed microfluidics for antimicrobial drug discovery
- Image the twist!
- Andreev Spin Qubit (ASQ) in GeSi Nanowires
- Quantum dynamics of an ultracold ion coupled to a nanomechanical oscillator

