

8 open positions in the 2018 Nanoscience PhD program

Please apply online at www.phd.nanoscience.ch
the latest by 31 December 2019 - 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 a fully funded position in the SNI PhD program. The successful 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, cell biology and nano-medicine.**

The SNI is funded by the Canton Aargau and the University of Basel to perform and promote cutting edge research in nanoscience and nanotechnology, based on the attractive SNI Bachelor, Masters and PhD programs, as well as in applied science projects with industry partners.

Open positions:

- **Microfluidics to study Huntington's disease by visual proteomics**
- Directional 3D nanofiber network to mimic in-vivo myocardial syncytium towards guiding contraction patterns in in-vitro heart models
- **Neutron nanomediators for non-invasive temperature mapping of fuel cells**
- Revealing protein binding dynamics using time-resolved diffraction experiments at SwissFEL
- **Magnetic force microscopy with nanowire transducers**
- Machine learning assisted design of heteromeric self-assembled molecular capsules
- **Spin-opto-nanomechanics**
- Chiral recognition in molecular nanowires from square-planar platinum(II) complexes

