Job title
Postdoctoral Fellow in Structural Biology and Biophysics

Introductory text
Applications are invited for a 3-year, SNSF-funded postdoctoral position in the group of Roderick Lim at the Biozentrum and the Swiss Nanoscience Institute (SNI), University of Basel, Switzerland. In this project, we want to resolve the structural dynamics of nuclear pore complexes (NPCs) that regulate molecular transport between the cytoplasm and nucleus in eukaryotic cells.

The Biozentrum of the University of Basel is one of the leading institutes worldwide for molecular and biomedical basic research and teaching. It is home to more than 30 research groups with scientists from over 40 countries. Research at the Biozentrum focuses on the areas of Cell Growth & Development, Infection Biology, Neurobiology, Structural Biology & Biophysics and Computational & Systems Biology. With its more than 500 employees, the Biozentrum is the largest department at the University of Basel's Faculty of Science.

Responsibilities
Your responsibilities are to conduct basic research as well as to contribute to undergraduate/post-graduate level teaching.

Requirements
Interested candidates should have a PhD in Physics, Biophysics or Structural Biology and/or related areas. Candidates with expertise in single molecule fluorescence techniques, or atomic force microscopy, including high-speed atomic force microscopy, are preferred. The successful candidate is highly motivated, creative and capable of independent research in a team environment. Communication skills in oral and written English are essential.

What we offer
We offer an outstanding, collaborative scientific environment that is fully equipped with atomic force microscopes, optical tweezers and optical microscopes including a total internal reflection fluorescence microscope and a spinning disk confocal microscope. More recently, we have acquired an Ando-type high-speed atomic force microscope (HS-AFM; RIBM) to study the dynamic inner workings of the nuclear pore complex (NPC) under native, transport-relevant conditions. [Ref: Sakiyama *et al.* Spatiotemporal dynamics of the nuclear pore complex transport barrier resolved by high-speed atomic force microscopy. ***Nature Nanotechnology*** 11 719 (2016)]

Optional
Basel is an international city with people from 150 nations. Located on the border where three countries meet - Switzerland-Germany- France -, it is Europe's most important life sciences hub. Basel provides a high standard of living and a rich and varied cultural atmosphere.

Information on application forms
Please send your completed application (including cover letter, CV, reference letters, diplomas and contact information of three referees) to Prof. Roderick Lim (c/o Dr. Stephanie Gehlen), Biozentrum, University of Basel, Klingelbergstrasse 70, 4056 Basel, Switzerland, e-mail: stephanie.gehlen@unibas.ch

For further information, please contact stephanie.gehlen@unibas.ch.