At the Institute of Physics of the Ecole Polytechnique Fédérale de Lausanne, Laboratory of Physics of Living Matter there is an opening for a:

**PhD Position**

in the field of detection of bacterial resistance to antibiotics by means of nanomechanical devices in the framework of the Swiss National Science program NFP72. The aim of the proposed research is to develop a new type of sensor based on nanomechanical device and to significantly speed up the detection of resistances by reducing the time between sample collection from the patient to results from 12-24 hours down to 1 hour. Our innovative device is based on a patented technology developed in our laboratory that was proven to be very effective [1].

We are seeking candidates who are interested to work at the interface between physics and biology. The candidate should have interests toward the development of instrumentation. The laboratory offers excellent research conditions and complete support from the biology side of the research.

The position is available starting January 1st 2017 and for a length of 4 years.

Candidates should send their CV with names of references to Prof. Giovanni Dietler, giovanni.dietler@epfl.ch or to Dr. Sandor Kasas, sandor.kasas@epfl.ch. The laboratory webpage also gives information about the other activities at LPMV.EPFL.CH