Building cool robots for preparing samples at -183 °C  

cryoWrite Ltd. is a small startup focused on developing advanced robots for the preparation of vitrified samples for cryo-electron microscopy (cryo-EM). We are scientific instrument makers and researchers. Our unique robot, the cryoWriter, processes and vitrifies sub-nL biological samples. The unique features of the cryoWriter enable researchers in academia and industry to prepare high-quality cryo-EM samples with unprecedented reproducibility and ease. Thus, our robots harness the power of cryo-EM and open avenues for novel experiments in biological and medical research.

Internships in hardware and software development
Two positions 80%-100% (negotiable, in Basel), temporary (3-6 months, immediately or by arrangement)

Working environment
A dynamic small developer team embedded in the inspiring environment of structural biology research. Robots are built and tested in the lab. Cryo-EM samples prepared by the cryoWriter are inspected by high-resolution cryo-transmission electron microscopes. Potential customers visit the lab to explore the cryoWriter at work.

Job description
You will support cryoWrite Ltd. in the development, production and testing of cryoWriters.
- The hardware project concerns the development of a concept/basic design for a simpler and cheaper robot that will be built from existing components.
- The focus of the software project is to develop a security scheme to prevent collisions between different cryoWriter components under all operating conditions.
In addition, you will help in the assembly of cryoWriters as necessary.

Your profile
You are a Bachelor or Master student in computer science, robotics, mechanical engineering/electrical engineering or comparable. You are a hands-on person and creative. Good CAD knowledge (Solidworks) is an advantage for the hardware project. Good programming skills in Python and experience in ROS are advantages for the software project.

Salary
Standard payment for ETH assistants: 28 CHF/hour.

We are looking forward to receiving your application (in English or German) by email:
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