

The [Ophthalmic Technology Laboratory \(OTL\)](#) at the University of Bern is looking for a:

Postdoctoral fellow in Computer Vision and Machine Learning

for a research and development project on robotic navigation in ophthalmology. The position is set for a 1-year duration with the opportunity to continue beyond this duration if desired.

The project is collaboration with the ETHZ Multi-scale Robotics Lab (<http://www.msrl.ethz.ch>) and Ophthorobotics AG (<http://ophthorobotics.com>). The project is aimed at developing novel strategies for precise navigation for safe robotic injections.

The ideal candidate is expected to:

- Research new strategies for 3D surface and instrument tracking
- Aid in the development of a robotic navigation system
- Coordinate project tasks with other engineers
- Possibility to supervise PhD and MSc students
- Writing of scientific publications

Requirements:

- PhD in medical imaging, computer vision, machine learning or other relevant fields.
- Excellent publication record (e.g. at least one publication in MICCAI, CVPR, TMI, MedIA, TPAMI, etc...)
- Strong English communication skills (both written and spoken)
- Experience in software development (C++, python, MATLAB)
- Experience in object detection and tracking is a plus.
- Experience in real-time systems is a plus.
- Experience in ophthalmology is *not* necessary

About the position:

The University of Bern is located in the heart of Switzerland. Salaries for post-doctoral fellows start from CHF 81,000 per year, the precise amount to be determined by the University's department of human resources.

Start date:

January-February, 2017 (flexible start date possible as well).

Application deadline:

Applications will be accepted until the position is filled.

To apply:

Applications must be sent by email (with subject “[OPPP-03] Postdoc position”) to Prof. Dr. Raphael Sznitman (raphael.sznitman@artorg.unibe.ch) and must contain a research statement, a CV, a list of publications and the names of three references.

