Originating from Germany, ZEISS has been globally shaping innovation for the past 170 years in many fields related to optics and optoelectronics, such as semiconductor manufacturing, med-tech, microscopy, industrial metrology, spectacles and consumer optics.

In order for us to be the same driving force of new technologies and innovation for the coming decades, we are constantly looking to meet new talents that are eager to push the limits of science and bring technology forward.

In order for you to get a first taste of what innovation at ZEISS truly means, we are happy to invite you to participate in our next innovation-workshop at the EPFL on December 4th 2017 from 2pm to 6pm.

This event will allow you to work together with a team of your peers on thrilling practical technological questions and come up with prototype-solutions. The winning team will be invited to present the result of their work to a panel of experts from the ZEISS Corporate Research and Technology Division at our Headquarters in Germany.

**Are you ready for such a challenge?**

If so, please apply until 27th November through the EPFL Career Center (cc@epfl.ch). Please include in your application a short resume as well as an indication concerning the technological challenge you wish to work on during the workshop (see list of proposed technical challenges on next page).

We are looking forward to meeting you soon!

*Carl Zeiss AG*
Innovation Workshop
EPFL, 4th December 2017, 2 pm – 6 pm

Technical Challenges

Challenge 1: Innovative smartphone-apps in the fields of Medicine/Healthcare (Optometry, Eye-care, Surgery), Materials Sciences, Bio- & Neurosciences or Education
Identify attractive use cases of dual-cam smartphones by using e.g. Design Thinking methods

Challenge 2: Metrology with unmanned aerial vehicles
What could be the new fields of application for unmanned aerial vehicles (UAV) in metrology (or other civil applications)?

Challenge 3: Smartphone-based tracking and recognition of dermatologic patterns
How can smartphone-apps be used to help doctors better detect problematic dermatological changes?

Challenge 4: Self-adjusting Intelligent Camera
How can algorithms allow a camera to self-adjust its parameters to improve image quality

Challenge 5: Open Topic “Human Machine Interaction”, “Autonomous Navigation” or “3D Models”
Alternatively to the four other challenges, you can also choose to present your personal ideas/concepts, hacks, system prototypes or even business ideas in the domains Human Machine Interaction, Autonomous Navigation or Camera-Based 3D Modeling

Information: You will be working on the challenges in teams that will be formed on the day of the workshop. Each team will receive the support of a coach (ZEISS-Expert)