

MSc level Internships projects in 2022
Call for proposals in Virtual Reality and Robotics – DUE DATE: OCTOBER 10th, 2021

The Fondation Campus Biotech Geneva (FCBG) is currently looking for research projects on which 1-2 MSc intern positions will be opened in 2022 in its Virtual Reality and Robotics (VR & Robotics) Facility of the Human Neuroscience Platform (HNP). The goal is to provide opportunities to develop new functionalities for the Facility, in close collaboration with actual research projects.

Researchers who have a project requiring VR, Robotics developments or 3D simulation that may be of interest for the larger community are encouraged to apply.

Proposals will be analysed and selected by the VR Facility team and the VR Faculty Advisors Profs D. Bavelier, O. Blanke and S. Micera.

The interns selection will be done later this year. The interns will be hired fully by the VR & Robotics Facility engineering team of the HNP, while working under the scientific supervision of the PI promoting the research project and the manager or the engineers of the facility.

Subjects of interest:

The proposed research projects should include a technical part (development and outcomes for the platform). Please note that projects also containing an experimental part are more likely to be selected.

Examples of technical development include (but are not limited to): accurate-real-time motion capture of body, hands or faces, biofeedback, EEG-VR/AR integration, use of real-time avatars, naturalistic environments, augmented reality interaction, TMS/AR, robotic arm + AR...

All research domains are welcome, including (but not limited to): cognitive neuroscience, sensory illusions, brain-machine interfaces, clinical applications...

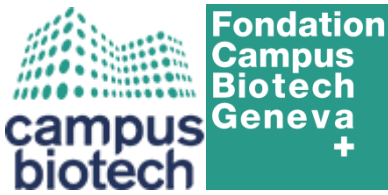
Profiles:

After the selection of projects, we are looking for excellent candidates with a strong engineering background (programming skills, interests in 3D computer graphics, knowledge of real-time systems, etc.), and a strong interest or initial background in neuroscience/bioengineering.

The internship is for MSc level students performing their 6 months final research project. The position is full-time at FCBG at Campus Biotech.

Contact person: facility team: vr@fcbg.ch

Procedure: Please fill in the attached form and join the CVs if any. **The due date is October 10th, 2021.**



**Research project proposal
FCBG VR and Robotics MSc Internship**

Research project description (max. 400 words)

Expected outcomes for the VR Facility:

Planning and milestones:

Proposed candidate **if any** (please attach CV)

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Scientific supervisor (please attach CV)

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University (please state contact person)

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