



Certification in Mixed Reality Guided Surgery

Neurosurgery (primarily), Orthopedy, ORL, Maxillofacial

26-27th February 2025



**UNIVERSITÉ
DE GENÈVE**



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WELCOME

Dear colleagues,

I am excited to invite you to join the first Mixed Reality Guided Surgery Certification for neurosurgeons and any surgeons using microscopes in their practice.

The certifying course will take place at the SWISS Foundation for Innovation and Training in Surgery (SFITS) in Geneva, Switzerland, on 26-27 February 2025.

Designed in collaboration between the Geneva University Hospitals and the SFITS Academy, this certifying course's primary objective is to master the use of digital imaging and mixed reality technologies in surgery.

The training will include frontal lectures explaining the basic principles, standard operating procedures and skills to be acquired through practical exercises. Participants will be working in groups of 2, one performing the task as principal surgeon and the second as assisting surgeon. Each group will be equipped with a full mixed reality set-up including a microscope and navigation unit. Skills will be acquired by planning and performing interventions on standardised cases using realistic models.

Within the facility equipped with the latest technology you will have the opportunity to exchange with leading experts in the field.

This certifying course will benefit of 16 CME delivered by the Swiss Neurosurgery Society. I am looking forward to seeing you in Geneva.

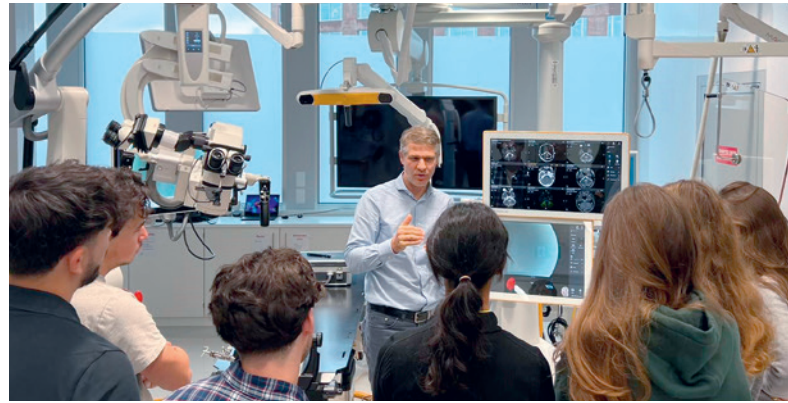
Professor
Philippe Bijlenga

DESCRIPTION

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- **Course aims:** Safe use latest mixed reality tools in surgery
 - **Objectives:**
 - Adequate individualised selection and use of pre-operative imaging
 - Digital anatomical twin creation
 - Intervention planning in Mixed Reality
 - Optimal device installation in the OR
 - Registration of the digital anatomical twin to reality
 - Mixed Reality Intervention Guidance
 - Quality control and safety
 - **Target audience:** All surgeons interested in Mixed Reality Guided Surgery. Use cases are focused on neurosurgical procedures.
 - **Maximal number of participants:** 8
 - **Number of days:** 2
 - **Course price:** CHF 1000.-
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Accreditation

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- Société Suisse de Neurochirurgie
 - Swiss Orthopaedics
 - Société Suisse de Chirurgie
 - UEMS
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PROGRAM

Day 1

08:30 Welcome coffee

09:00 Theory

Practical part: Basic concepts of Mixed Reality: anterior and middle fossa skull base surgery

- Introduction
- **Presentation - clinical case 1**
- Hands-on 40 minutes Surgeon-Assistant
- Hands-on 40 minutes Assistant-Surgeon
- **Presentation - clinical case 2**
- Hands-on 40 minutes Surgeon-Assistant
- Hands-on 40 minutes Assistant-Surgeon
- Exam

12:00 Lunch

Practical part: Mixed Reality in posterior fossa skull base surgery

- Introduction
- **Presentation - clinical case 1**
- Hands-on 40 minutes Surgeon-Assistant
- Hands-on 40 minutes Assistant-Surgeon
- **Presentation - clinical case 2**
- Hands-on 40 minutes Surgeon-Assistant
- Hands-on 40 minutes Assistant-Surgeon
- Exam

End of day

Day 2

08:30 Welcome coffee

09:00 Theory

Practical part: Mixed Reality in soft tissue using vessels as signature structures

- Introduction
- **Presentation - clinical case 1**
- Hands-on 40 minutes Surgeon-Assistant
- Hands-on 40 minutes Assistant-Surgeon
- **Presentation - clinical case 2**
- Hands-on 40 minutes Surgeon-Assistant
- Hands-on 40 minutes Assistant-Surgeon
- Exam

12:00 Lunch

Practical part: Mixed Reality for intracerebral surgery

- Introduction
- **Presentation - clinical case 1**
- Hands-on 40 minutes Surgeon-Assistant
- Hands-on 40 minutes Assistant-Surgeon
- **Presentation - clinical case 2**
- Hands-on 40 minutes Surgeon-Assistant
- Hands-on 40 minutes Assistant-Surgeon
- Exam

17:00 Certification



GENERAL INFORMATION

Please book your participation via the SFITS web application:

Go to:

<https://calendar.sfits.ch>



or scan QR code



SFITS SWISS Foundation for Innovation and Training in Surgery

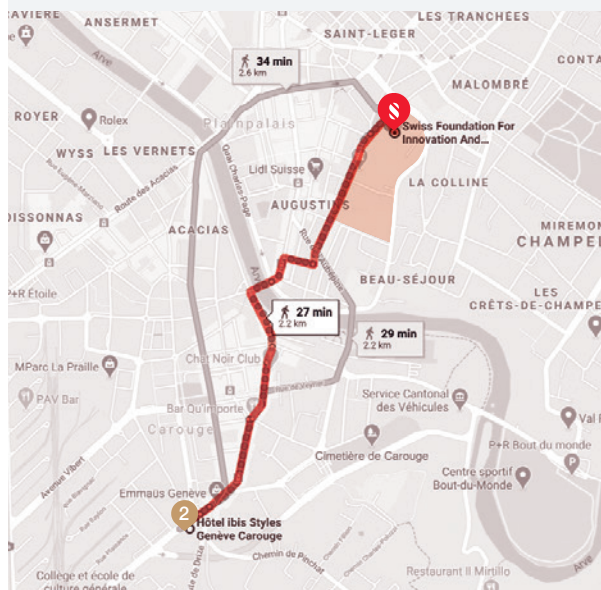
1 Rue Gabrielle-Perret-Gentil 4
1205 Geneva, Switzerland
+41 22 322 9100 | www.sfits.ch

Accommodation recommendation


- not included in the registration fees


2 **ibis Styles Genève Carouge Hotel**
Route De Saint Julien 3, 1227 Carouge

- Please contact us to get more information and special prices.



Access to SFITS by public transport

 Bus n° 1, 5, 7, 35 | **Stop Hôpital**
Bus n° 3 | **Stop Claparède**

 Tram n° 12, 18 | **Stop Augustins**

 Train | **Stop Champel**

 PARKING **Lombard**