

HAGERBACH TEST GALLERY

The Underground Future Lab

RESEARCH
INFRASTRUCTURE
OF
**NATIONAL
IMPORTANCE**



THE  UNDERGROUND
FUTURE LAB

V-S-H-
VersuchsStollen Hagerbach

THE UNDERGROUND FUTURE LAB



Welcome to The Underground Future Lab

At the foot of the Alvier lies the inconspicuous entrance to the Hagerbach Test Gallery – a fascinating underground world. Visionary master builders and scientists from all over the world find answers to the pressing questions of our time in an area of more than 25 000 square metres. A multitude of tunnels, caverns, test fields, laboratories and training rooms offer ideal conditions for research, development, testing, 1:1 experiments and events of all kinds. A fantastic constellation that the federal government recognised as a research infrastructure of national importance in 2025.

Far from daylight, visions for the cities of tomorrow have been created here since it was founded in 1970. Specialists and inventors from all over the world develop new solutions for transport, living space, and infrastructure, test new building materials and machines, or try the energetic activation of underground spaces, innovative hydrogen storage systems, and CO₂ production.

Our team of specialists works on our own developments and on commissions, in collaboration with companies, associations and research institutes. Our involvement in national and European research projects further strengthens our knowledge base. Here, in the heart of the mountain, we work together to turn challenges into opportunities. Our strengths are our quality, expertise, flexibility, and unique atmosphere. The Hagerbach Test Gallery is not only a place of research but also a place of learning and celebration.

Building materials testing, technology and inspection:

WHERE SAFE BUILDING MATERIALS ARE CREATED FROM FROM SCRATCH

Research, development and innovation:

WHERE VISIONS BECOME REALITY UNDERGROUND

Education and training:

WHERE EXPERIENCE AND EXPERTISE OPEN UP NEW HORIZONS

Consultancy, expertise and partnerships:

WHERE VISIONARY FORCES ARE BUNDLED

Gastronomy, events and guided tours:

WHERE INGENUOUS EVENTS INSPIRE OUR GUESTS

**VIDEO: DISCOVER
THE UNDERGROUND
FUTURE LAB**



WHERE VISIONS BECOME REALITY UNDERGROUND



With the Underground Future Lab, the Hagerbach Test Gallery is specifically strengthening its research and development activities. The spectrum extends beyond traditional underground construction – from energy solutions and smart city concepts to space habitats.

The increasing importance of urbanisation and climate change is bringing the underground into focus as a research area. The Underground Future Lab offers ideal conditions for investigating issues that need to be examined under resource-efficient or extreme conditions.

Unlimited possibilities

The caverns in the Test Gallery enable real-scale research. Flexible infrastructures complement traditional laboratories and create space for temporary experiments as well as long-term research projects.

Research Infrastructure of National Importance

Since its recognition as a research infrastructure of national importance, the Test Gallery has undergone continuous development in collaboration with world-renowned researchers. This includes the establishment of the Hagerbach Foundation, which co-finances selected research projects and strengthens long-term innovation activities at the site. Further support in the framework of VSH's reorientation is delivered by the Scientific Council, whose expertise strengthens the implementation within the academic community. The research team in Flums accompanies projects through all phases – from application and implementation to publication of the results.

Innovation project supported by



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Innosuisse – Swiss Innovation Agency

WHERE EXPERIENCE AND EXPERTISE OPEN UP NEW HORIZONS



The hard-siliceous limestone and soft slate of our research infrastructure of national importance offer optimal conditions for versatile education and training.

The tremendous universal genius Galileo Galilei once said: "Curiosity is the key to problem solving". With this inquisitiveness and our broad experience in building materials, testing and applications, we are at your side as independent experts for your projects.

Where professionals consolidate skills and knowledge

Innovations only take full effect when they are used safely and efficiently. This is why targeted training is essential - both for professional qualification and for safety in everyday working life. Company-specific seminars with practical demonstrations provide first-hand expertise. Specialised training programmes ensure high quality standards and safety training courses enable specialists to meet the challenges of demanding working environments.

Core competences:

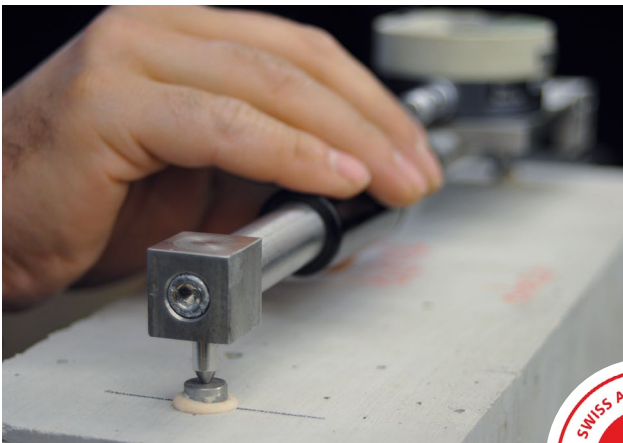
- Training of sprayed concrete technologies
- Training and advice on sewer systems and tunnels
- Accredited and customer-specific fire resistance tests
- Live exercises for underground safety and rescue
- Training about concrete and cement knowledge
- Training for TBM operators
- Customised courses

TESTING, TECHNOLOGY AND INSPECTION OF BUILDING MATERIALS

WHERE SAFE AND SUSTAINABLE BUILDING MATERIALS ARE DEVELOPPED

We offer comprehensive testing and consulting services in our three building materials testing laboratories in Flums (main laboratory), Altdorf and Regensdorf, and mobile laboratory vans. The Flums, Altdorf and Regensdorf laboratories are accredited in accordance with the EN ISO/IEC 17025 standard and certified in accordance with ISO 9001. This underlines the professional, technical and organisational quality of our services.

A highly motivated team, state-of-the-art equipment, continuous professional training and many years of practical experience guarantee high quality. Our clients particularly appreciate our independence, discretion, adherence to deadlines and transparent pricing.



Fresh concrete **CONSULTING**
Component testing
STATUS REPORTS
Mineral building materials
HARDENED CONCRETE
Recycling **ROCK**

WHERE VISIONARY FORCES ARE BUNDLED



In future, the vast majority of people will live in urban areas.

Utilising the third dimension not only upwards but also underground will be an essential part of urban development. The aim is to use the habitat on the surface as an open living space for people and social interaction, and to include the underground as part of the usable environment.

Whether in underground construction, logistics or building construction, partner companies can test their ideas or benefit from the expertise and network.

A piece of the Hagerbach gallery for tenants and partners

Are you interested in a partnership or a permanent lease in the gallery? We would be happy to advise you on the possibilities and solutions.

Partnerships:

-  
-  
-  

DEMONSTRATION channels
Risk management
SAFETY&SECURITY
Digitalisation **SEMINARS**
BUILDING SITE 4.0
Underground construction

WHERE INGENUOUS EVENTS INSPIRE OUR GUESTS



Our research infrastructure of national importance includes a unique event location with a restaurant inside the mountain.

Thanks to the various venues, we always find the right place to make your event an unforgettable experience. A fascinating atmosphere, an in-house event team, exciting supporting programmes, our own cuisine and flexible catering options offer you numerous opportunities to celebrate well into the night. Our stress-free approach, free and easy parking and always stable weather conditions will make your function a sure success.



Parties **RESTAURANT**
Guided tours
LIVE-MARKETING
Company celebrations
CONCERTS
EXPERIENCES
Seminars **BIRTHDAYS**

HAGERBACH TEST GALLERY

Where innovation comes to life in underground construction



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