Institute of Systems Engineering
The Institute of Systems Engineering

The Institute of Systems Engineering is part of the University of Applied Sciences and Arts Western Switzerland Valais (HES-SO Valais). Its staff is skilled in **integrating different technologies** into a single product. Its partners include SMEs, national and international companies in the fields of electricity, mechanical engineering, industrial production, life sciences and health.

With its over 90 qualified and experienced staff, the Institute carries out a large number of applied research and development projects every year and offers a wide range of services and continuing education courses.

**A unique positioning**

The Institute focuses its activities on three key areas:

- **Renewable energy**
- **Smart grids**
- **Development of instruments** for the fields of energy, health and environment.
Applied Research & Development

Thanks to the multidisciplinary specialist skills of its staff, the Institute can offer targeted solutions to its clients. Its portfolio includes:

- Projects that are co-financed by the Swiss Confederation (CTI, SNF, SFOE, SCCER, etc.), European research programmes, HES-SO research funds, business promotion agencies (The Ark), private associations and foundations
- Partnerships with universities, federal institutes of technologies, universities of applied sciences and national and international scientific networks
- Services to companies: partnership agreements, consulting services, projects, feasibility studies.

The Institute also provides expert reports:

- Metallographic analysis and electron microscopy
- Materials testing
- EMC testing (electromagnetic compatibility)
- Energy optimisation.

Continuing education

The Institute organises, develops and offers training courses tailored to companies’ individual needs. Courses can be held on company premises or at the School of Engineering, and are taught by qualified and experienced staff members.

The following courses are offered on a regular basis:

- Hydro: basic knowledge about hydroelectric power plants
- CAS ERTA: renewable energy, techniques and applications
- MAS EDD-BAT: energy and sustainable development in the building industry.

The Institute also houses the Earthquake Education Centre (CPPS) and thus participates in the earthquake education of the public and of professionals.
THE INSTITUTE FOR INNOVATION