

The ZHAW is one of the leading Swiss universities of applied sciences and houses a very wide spectrum of specialist knowledge. ZHAW researchers are developing innovative solutions that can be successfully applied in practice. They carry out numerous projects each year in collaboration with companies and the public sector. Why don't you use this expertise for your projects too?

### Innovation centre for research and application partners

Research and development at the ZHAW are aligned with key societal challenges, such as energy supply or integrating people into our society. Research at the ZHAW always takes place in close contact with companies, public institutions or other research partners. The proximity to current problems from actual practice, as well as the innovative environment, also enable the ZHAW to offer an application-oriented education to students, who participate actively in research projects and thus become the specialists of the future.

### Advantages of collaboration with the ZHAW:

- Comprehensive specialist knowledge in numerous subject areas
- Projects processed according to high scientific standards
- Excellent research infrastructure
- Consultation regarding the possibility of a project being financed by promotion agencies
- Support as regards legal questions such as intellectual property

### Forms of collaboration

Different forms of collaboration are possible, depending on the starting position and the intent of the practice or research partner concerning the use of the research results.

### The four collaboration models are as follows:

- **Research cooperation:** The ZHAW and the practice or research partner work together on a solution to a current challenge from the partner's environment – often with support from public research funds.
- **Mandated research:** The ZHAW develops a tailor-made solution as commissioned by the practice partner. All rights are usually held by the commissioning party.
- **Services:** Practice partners commission the ZHAW to conduct independent and objective assessments, measurements or analyses. Here, methods and tools that are already well-known are used.
- **Sponsorships and endowments:** The work of the ZHAW receives financial support. The sponsor is named; the ZHAW's freedom of teaching and research remains unchanged.

### We look forward to working with you!

Researchers at the ZHAW develop innovative solutions that further the aims of companies and organisations. Take advantage of this opportunity! We will be happy to advise you and to connect you with researchers from your subject area.

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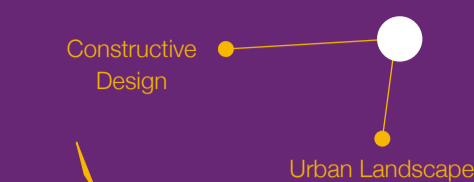
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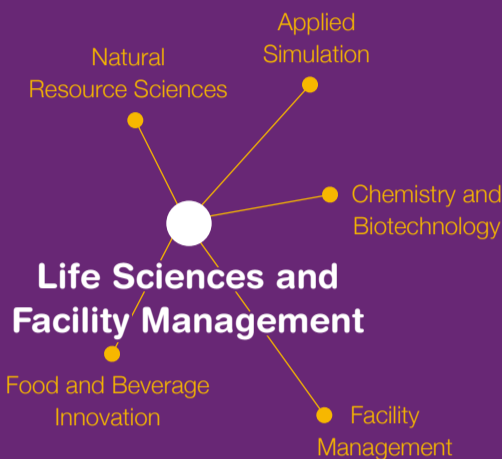
## Research areas

At the ZHAW, over 50 institutes and centres are involved in research into current problems, in 8 specialist areas. The following overview includes some examples of successful collaboration:

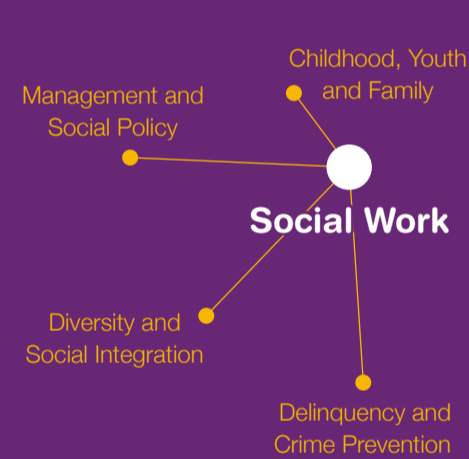
### Architecture, Design and Civil Engineering



**Urban wind farming in the city of Zurich**  
ZHAW specialists from the fields of architecture, the environment and technology have determined examples of suitable locations for wind energy turbines and thus demonstrated the potential of urban wind energy. The project serves as a basis for optimised location selection for sustainable wind energy projects in cities. Project financed by the private business sector.



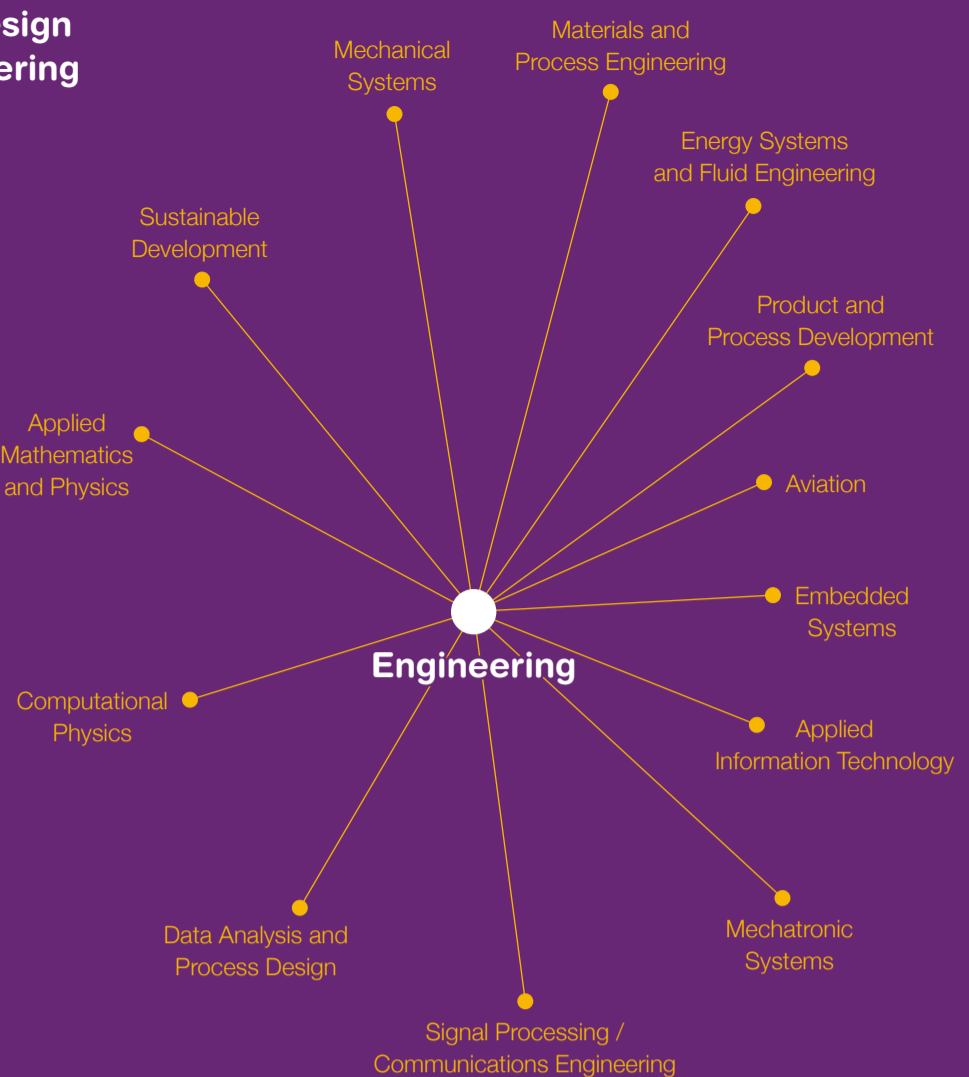
**Tick app helps prevent tick-borne diseases**  
What should you do if you discover you've been bitten by a tick? The tick app provides some useful tips. It was developed by ZHAW researchers in the field of phytomedicine, with the support of the Federal Office of Public Health and other partners. It can be downloaded free of charge in German or French on iOS devices such as iPhones and iPads. Project financed by the Federal Office of Public Health.



**Improving the lives of elderly migrants**  
Researchers from the field of social work are looking into the question of how elderly migrants are interconnected in their neighbourhoods, and are investigating which participatory methods can be used to strengthen existing social networks and to incorporate elderly migrants into programmes more. Project financed by a Foundation.



**Young people with mental health problems helped as they search for work**  
Young people who have completed their compulsory education and do not go on to further education or an apprenticeship suffer from mental health problems much more frequently than those who do. This project improves integration into the job market for young people with mental health problems. Project financed by a Foundation.



**Heating and cooling using a saline solution**  
In the Horizon 2020 project entitled H-DisNet, which is being conducted with six European partners, the ZHAW is developing new technology for district heating networks. The idea is that a concentrated saline solution is transported to where it is needed, instead of hot or cold liquids, and the saline solution's chemical potential is used in situ. The saline solution can be transported and stored without insulation. Project financed by the European Union.



**Intelligent leggings help with mobility**  
ZHAW researchers from the fields of health and technology, together with European partners, are developing a soft exoskeleton to assist people with mobility impairments. The intelligent material used can harden or soften depending on the movement made. Project financed by the European Union.



**ZHAW researchers make doctors' bills easier to understand**  
ZHAW researchers looked at how doctors' bills can be formulated in a clearer and more understandable way so that patients can check them more easily. The research results flow into software that "translates" the doctors' bills into simple terms. Project financed by the Commission for Technology and Innovation (CTI).



**Working well into old age. Software brings hidden talents to light**  
Older employees have a great deal of experience and valuable skills. In the EU project entitled "ExpAct", ZHAW researchers have developed a framework for an intermediary platform that makes this wealth of experience visible. The project serves to improve older people's quality of life and is of great value to employees and employers. Project financed by the European Union.

