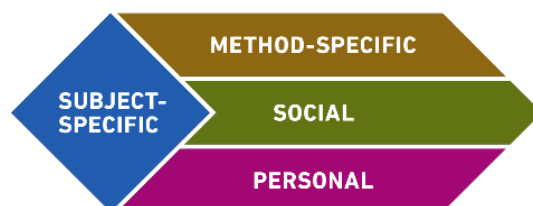# ETH zürich

COMPETENCE FRAMEWORK

Overview

The ETH Competence Framework is a compilation of the competencies that ETH Zurich aims to foster. The ETH Competence Framework is for guiding and inspiring the personal and professional development of students and the work of teaching staff members at ETH Zurich.

SUBJECT-SPECIFIC COMPETENCIES (to be specified by individual degree programmes)

Knowledge of theories, concepts, and techniques and its application to specific fields

Competencies	General definition
Subject-specific Competency 1 **Concepts and Theories**	Ability to understand and apply the basic concepts and definitions that are relevant for a scientific subject or a field
Subject-specific Competency 2 **Techniques and Technologies**	Ability to understand and apply techniques and technologies in use within a specific scientific subject or field

METHOD-SPECIFIC COMPETENCIES

Knowledge and application of methods to make sense of, and operate in, any context

Competencies	General definition
Method-specific Competency 1 **Analytical Competencies**	Ability to break down processes and systems into parts while understanding their interaction
Method-specific Competency 2 **Decision-making**	Ability to define a decision and a set of alternative actions from which to choose
Method-specific Competency 3 **Media and Digital Technologies**	Ability to access, evaluate, and use media and digital technology
Method-specific Competency 4 **Problem-solving**	Ability to define a problem and find solutions for it
Method-specifc Competency 5 **Project Management**	Ability to manage projects and produce results

SOCIAL COMPETENCIES

Competencies applied in the interaction with others

Competencies	General definition
Social Competency 1 **Communication**	Ability to communicate with others in different contexts and forms
Social Competency 2 **Cooperation and Teamwork**	Ability to build relationships with others to pursue common goals and achieve results in a constructive atmosphere
Social Competency 3 **Customer Orientation**	Ability to approach relationships with others and society in terms of what you have to offer rather than what you need or want
Social Competency 4 **Leadership and Responsibility**	Ability to motivate and inspire others and support others' achievements
Social Competency 5 **Self-presentation and Social Influence**	Ability to present an authentic and professional image of self to others and motivate others to the adoption of a specific behaviour
Social Competency 6 **Sensitivity to Diversity**	Ability to recognise differences among people and work with them
Social Competency 7 Negotiation	Ability to advocate positions with an open mind and try to synthesise ideas from all viewpoints best

PERSONAL COMPETENCIES

Competencies concerning self-management in the context of own work

Competencies	General definition
Personal Competency 1 **Adaptability and Flexibility**	Ability to adjust effectively to a changing environment and deal well with changes
Personal Competency 2 **Creative Thinking**	Ability to produce and implement novel and useful ideas
Personal Competency 3 **Critical Thinking**	Ability to analyse and evaluate situations and recommend courses of action
Personal Competency 4 **Integrity and Work Ethics**	Adherence to moral and ethical principles in the conduct of own work and in the relationship with others
Personal Competency 5 **Self-awareness and Self-reflection**	Ability to understand own strengths and weaknesses and enhance self-development
Personal Competency 6 **Self-direction and Self-management**	Ability to motivate oneself and organise own work in order to achieve results