

Design or Assessment of a Reinforced Concrete Bridge - Spring 2024

- **Project category:** GC
- **Project type:** Construction Project/ Civil System Project
- **Project supervisors:** Prof. David Ruggiero (validate the project), and Dr Frédéric Monney



- **Description:**

Many reinforced concrete bridges were constructed in Switzerland towards the end of the last century. These structures form a vital part of the country's transportation system, and their enduring performance over time continues to highlight them as an appealing solution for the development of the road network. Indeed, reinforced concrete bridges remain attractive options due to their aesthetics, overall life cycle costs, and practicality.

In this project, you will engage in the early-stage conception of a new reinforced concrete bridge in Switzerland or in the assessment of an existing one. Working in pairs, you will confront multiple constraints associated with the development or assessment of a bridge structure. Additionally, you will explore how various design choices impact the conception, design, or assessment of a bridge.

- **Keywords:** Conceptual design, Reinforced Concrete Bridge.

To register for the project please send an email with your names to: frederic.monney@epfl.ch