

Competences in Sofistik

Equi Bridges has specialized knowledge in bridge engineering: from project initiation, conceptual design, detailed design, and proof check of structural analysis to site inspection, structural health monitoring, condition assessment, and load rating of existing bridges.

In 2022, three new team members joined us to strengthen Equi Bridges in the design of bridges with an emphasis on structural analyses. Furthermore, we were able to expand our capacity in project management.

Bridge engineer Maria Kierzek, structural modeling specialist Prof. Fernando Ortiz and project manager Marcel Imbach joined us. All three bring experience in Sofistik, our main tool for structural analysis. Sofistik is suitable for all structural problems in bridge design: from parameterized calculations of frame bridges to internal forces optimization of prestressed reinforced concrete bridges to stress evaluations in steel and composite bridge design.

Maria Kierzek has spent the last 5 years mainly working on railway bridges for Deutsche Bahn and has in-depth knowledge of structural engineering, both in concrete and steel structures. She has gained valuable experience in the design of new bridges as well as in the assessment of existing bridges.

Prof. Fernando Ortiz is specialized in structural modeling and has been working with Sofistik for more than 20 years. In addition to his main position at Bern University of Applied Sciences as a Professor of Digitization in Civil Engineering and his teaching activities at ETH Zurich, he ensures that Equi Bridges remains at the cutting edge in computer-aided design and with high performance in Sofistik. Likewise, he will join us in shaping the future of applying the BIM methodology in bridge design and rehabilitations.

Marcel Imbach brings 7 years of experience on Swiss and international infrastructure projects. Most recently, he worked in an international contractor's technical department and is strengthening our team in geotechnics and foundation engineering. As an experienced project manager, he knows how to implement projects efficiently.

Our entire team is looking forward to supporting you in your bridge projects, in the design of new bridges, in the assessment of existing bridges, or in proof check mandates.



Maria Kierzek

MSc Eng
Bridge Engineer



Fernando Ortiz

Prof., MSc UPM
Specialist in Computer-Aided
Structural Analysis



Marcel Imbach

MSc ETH Civil Engineering, SIA
Project Manager