

Competences in Railway Bridges

Equi Bridges possesses specialized knowledge covering the entire service life of railway bridges, from the conceptual design, through the detailed design and design proof check to the inspection and assessment of bridges in operation.

Michal Majka brings extensive experience in rail bridge dynamics and bridge-track-train interaction for high-speed railways. Michal's previous work on the client side for Irish Rail provided him with a unique insight into the challenges faced by Railway Infrastructure Managers. He has been involved in technically complex bridge refurbishments.



Michal Majka

PhD, MSc, CEng, MICE, MIEI
Senior Bridge Engineer



Maria Kierzek

MSc Eng
Project Manager / Lead Sofistik
Competence Center Bridges

Maria Kierzek specializes in the planning of rail bridges and has worked on feasibility studies as well as projects for double-track extensions. Since 2024, she has primarily been involved in the major SBB project for the expansion of Bern's train station and has prepared Project Approval Procedure submissions for the replacement of road underpasses in urban environments and near railway stations. She has contributed to the planning of construction phases in various major railway projects.

Dawid Wisniewski has many years of experience in the planning of the British High Speed 2 (HS2) and, together with **Krystian Mikoda**, developed new standard solutions for the Polish Railways (PKP). **Alejandro Giraldo Soto** specializes in long railway bridges, as well as in the use of alternative materials such as UHPC and CFRP. **Martín Polimeni** was involved as lead engineer in railway bridge projects in Buenos Aires, through which the railway lines were grade-separated and the level crossings eliminated.

Kristian Schellenberg and **Laurent Rus** inspected the condition of over 400 structures and elaborated a proposal for maintenance prioritization.

As part of the Rail Baltica project, our team designed various bridges and wildlife crossings using the BIM method.

The aim of our bridge experts is to meet not only the structural requirements but also those relating to operation and maintenance.

If required, Equi Bridges can also create paperless structural documentation based on BIM models and advise you on future digitalization steps.