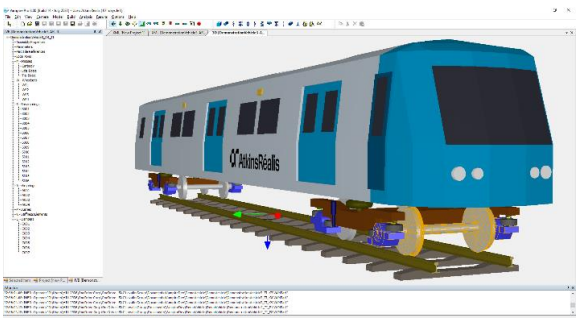
Vampire Pro Offer for IMechE Railway Challenge Teams

AtkinsRéalis is once again pleased to offer Vampire Pro to teams competing in the IMechE Railway Challenge. Vampire Pro is an industry-leading railway dynamics simulation package, developed and optimised specifically for the railway industry, enabling cost-effective analysis of rail vehicle performance and safety through simulation.

Vampire Pro will empower Railway Challenge teams to simulate and assess the performance of their locomotives, including ride and derailment resistance, prior to manufacture, and so refine their designs prior to the competition weekend. Simulation is a core technology in the design and introduction of rolling stock, enabling costly or impractical tests to be executed using a validated vehicle model, and we are excited for the competitors to see this process play out in miniature.

Vampire Pro is actively developed and supported by AtkinsRéalis's experienced rolling stock dynamicists and used by railway organisations throughout the world. Further details on Vampire Pro can be found at https://vampire.clyx.net/.

The offer



AtkinsRéalis will provide a dedicated release of the software for the Railway Challenge, restricted to miniature railway use. This will feature example 10¼" gauge models, example analysis runs and competition-specific guides for teams to work from.

The release will include two licence seats per team. Each team may have as many individual named users as they want. The licenses will permit only two named users to access the package concurrently.

In addition, a training video on using the software will be provided along with a follow up open drop-in surgery session over Microsoft Teams (TBA) to cover any initial questions the training might raise.

Towards the end of the competition AtkinsRéalis will request feedback on the team's experience of using Vampire Pro. It is an expectation of this offer that all teams provide feedback, which we will use to improve our offering of Vampire Pro for future IMechE Railway Challenge Teams.

How to request

Teams should contact the IMechE at railwaychallenge@imeche.org providing the following details:

- Organisation name & team name
- Names and email addresses for all users requiring access

These will then be passed on to AtkinsRéalis who will then provide instructions to each team on how to access the software and associated materials. The instructions will include welcome information, a link to download the software, example files & training guides, a link to the training video and licence details enabling use of the software.

AtkinsRéalis wishes you all success in the IMechE Railway Challenge and we look forward to supporting you.