

Railway Challenge 2023

– Team Introduction –

1. Team EAGLE (Nuremberg Institute of Technology)

Team EAGLE (First working group on locomotive development Nuremberg) was founded at the beginning of 2022 and consists of 6 students of natural sciences and engineering, supported by 3 employees of the Institute of Automotive Engineering (IFZN) located at the Nuremberg University of Technology. Despite some problems, it enters the RWC 2023 already one year after its foundation with a complete, innovative locomotive, named after the historical model “ADLER” (Automated Driving Locomotive Efficient Railway).



The image shows the Nuremberg team during assembly.

2. Team PUTrain (TU Poznań)

PUTrain is a Polish team of students from Poznań University of Technology, which has been building its own locomotives and competing in the Railway Challenge since 2018. Its projects focus on using non-obvious solutions, such as replacing steel parts with composite components, and reducing the bad impact on the environment by using renewable energy sources to power their vehicles.



The image shows the Poznań team with their locomotive at the IMechE Railway challenge.

3. Team Molly loves J.I.M. (FH Aachen & Reuschling)

After an encouraging first participation in the IMechE Railway Challenge in 2017 with their locomotive Emma, FH Aachen was able to win the overall competition in 2019 and 2022 with the new design Molly. The team focuses on the integration of different disciplines and helps to spread the idea of railways within the university. The novel locomotive combines high power with good efficiency of the traction system, thus providing a basis for small-scale innovations readily available to students.



The picture shows the Aachen locomotive at the IMechE Railway Challenge 2022.