



Contribution ID: 25

Type: **Poster**

The Platform MaterialDigital Workflow Store - Sharing Scientific Workflows within the MSE community

Wednesday 26 February 2025 19:40 (20 minutes)

The MaterialDigital Platform (PMD) project, launched in 2019, aims to advance digitalization in material science and engineering in Germany. The project focuses on creating a robust infrastructure for managing and sharing material-related data.

The PMD Workflow Store is a key component of this initiative. It serves as a repository where scientists and engineers can access, collaborate on, and upload workflows for material simulation and analysis. The platform features centralized access and sharing, automated validation, a searchable index, and a commitment to continuous enhancement based on user feedback.

Here, we introduce the PMD Workflow Store and demonstrate how it streamlines collaboration and knowledge sharing within the scientific community. We show that this platform simplifies access to diverse workflows, ensuring high standards of quality and consistency. The Workflow Store accelerates research and development by providing a single entrypoint to discover and share workflows and workflow modules from and with the MSE community.

We highlight the transformative impact of the PMD Workflow Store on the material science community. This platform not only meets current needs but also aims to incorporate tools for future advancements. As digital workflows become indispensable in material science, the PMD Workflow Store aims to become a vital resource for researchers and engineers.

I want to participate in the youngRSE prize

Primary author: Mr BULDIN, Artem (Karlsruhe Institute of Technology (KIT))

Co-authors: Ms KRYEZIU, Jehona (Karlsruhe Institute of Technology (KIT)); Dr STRAUMAL, Alexander (Karlsruhe Institute of Technology (KIT)); Dr HICKEL, Tilmann (Bundesanstalt für Materialforschung und -prüfung (BAM)); Prof. WENZEL, Wolfgang (Karlsruhe Institute of Technology (KIT)); Dr SCHAARSCHMIDT, Jörg (Karlsruhe Institute of Technology (KIT))

Presenters: Mr BULDIN, Artem (Karlsruhe Institute of Technology (KIT)); Ms KRYEZIU, Jehona (Karlsruhe Institute of Technology (KIT))

Session Classification: Poster and Demo Session together with Reception

Track Classification: Data and Software Management: computational workflows