PRESS RELEASE

INTELLEGENS AND MATERIALS DESIGN, INC. COLLABORATE TO ACCELERATE MATERIALS RESEARCH

Cambridge, UK and San Diego, CA – 12 May, 2026 – Intellegens and Materials Design, Inc., today announced a collaboration enabling materials research organizations to combine advanced machine learning and the full range of materials simulation methods, delivering insights that speed up development of new and improved materials and processes.

Alchemite™ machine learning from Intellegens extracts valuable information from research data, identifying key relationships that drive material properties and guiding critical decisions, such as which material or formulation to test next. Alchemite™ handles difficult data challenges, such as gaps or noise in the data and the need to accurately model uncertainty.

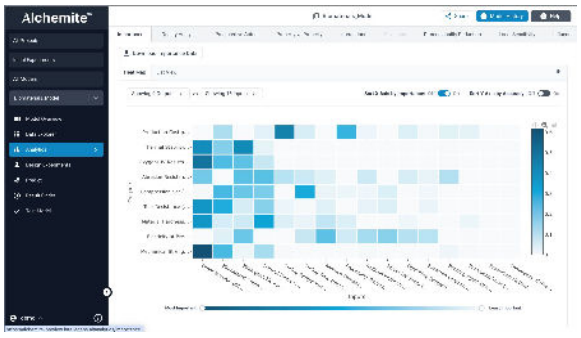
Materials Design provides the market's most comprehensive range of simulation software for materials science – from the electronic to the engineering scales with unparalleled multiscale modelling capabilities. The company's *MedeA*® Environment provides software, databases, model building tools, compute engines, and forcefield simulations that render extremely precise atomistic and nano-scale models, helping clients understand the engineering science of materials at the level of atomic interactions.

Experts at Materials Design validated the combination of these technologies in a project to model biodegradability of polymers, enabling rapid screening of more sustainable options. Research insights were generated in less time, using fewer computational resources than would have been the case using either technology alone. There are many areas of potential complementary use. Machine learning can select which from a range of candidate systems to simulate. It can also calculate parameters for use in physics-based simulation models. Simulation can fill gaps in the datasets used to train machine learning models.

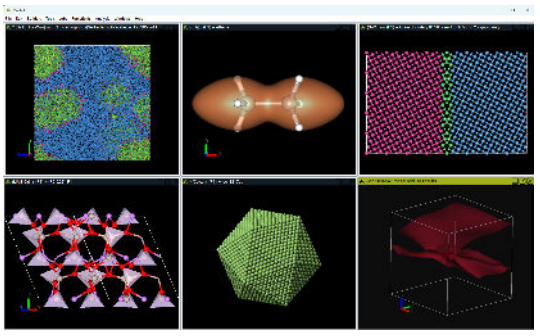
The collaboration between the companies offers such combined capabilities to customers in sectors including Advanced Materials, Chemicals, Electronics, and Energy – either through jointly specified software solutions or via scientific service engagements.

According to **Intellegens CEO, Ben Pellegrini,** "Our companies have much in common. We each focus exclusively on excellence in our respective technologies and bring that to customers through science teams with deep expertise in materials and formulations research. Working together, we can offer a best-in-class combination of machine learning and physics-based simulations."

Materials Design Chief Science Officer and Board Chair Dr. Erich Wimmer said "Our scientific team has validated Alchemite™ machine learning to support a complex materials research challenge typical of those faced by our customers. We're excited that this additional capability will now be available alongside the comprehensive range of materials simulation methods in *MedeA®*."



Alchemite™ ML identifies which factors are determine materials properties



MedeA® offers simulation methods from the electronic to the engineering scales.

To download full size images, find this news item at https://intellegens.com/news/.

About Intellegens

Intellegens enables research organizations to apply advanced machine learning to find new product and process solutions, get to market faster, and break through R&D bottlenecks. Originally developed at the University of Cambridge, the Alchemite™ method is now available via easy-to-use apps focused on key challenges for scientists, experimentalists, data scientists, and managers. Proven for chemicals, materials, life sciences, FMCG, and beyond. Contact Caroline Osborne: caroline@intellegens.com. www.intellegens.com

About Materials Design

Materials Design, Inc. is the leading atomistic simulation software and services company for materials. We help customers across many diverse industries design new materials, predict their properties, and generate value through innovation. Contact Katherine Hollingsworth: khollingsworth@materialsdesign.com. www.materialsdesign.com