

# QuesTek Innovations Accelerates Predictive Materials Engineering with ICMD® 2.0

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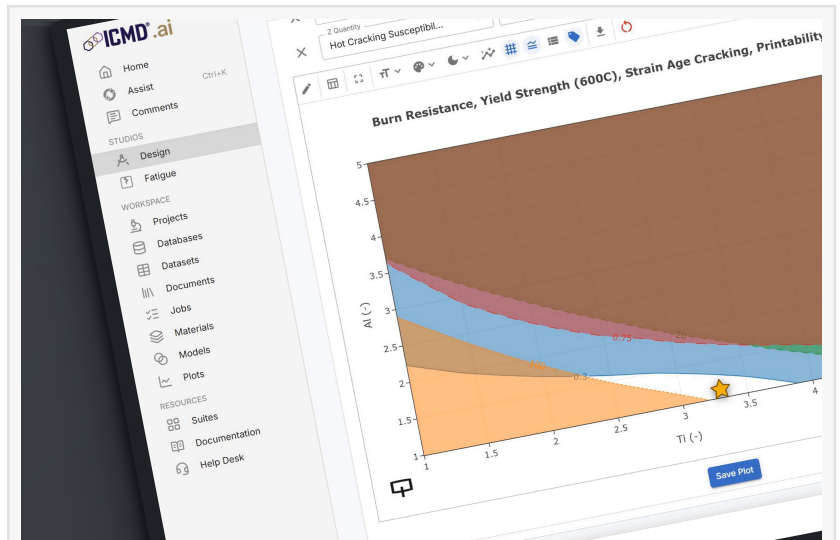
EINPresswire.com/ -- QuesTek Innovations today announced [ICMD® 2.0](#), the next evolution of its materials design and engineering software platform, helping engineering teams make faster, science-backed materials decisions and accelerate the path from materials challenge to qualified materials performance.

As engineering teams face growing pressure to move faster and innovate more, materials development can be a critical constraint. New products and technologies increasingly depend on materials that can deliver performance in demanding environments, yet traditional approaches often require extensive experimentation, testing, and iteration. As the pace of innovation accelerates, teams need more efficient ways to evaluate, optimize, and advance materials toward application. ICMD® 2.0 was developed to meet this challenge, enhancing the software to help teams keep pace with the demands of modern materials innovation.

"Materials innovation has entered a new era, and industry leaders need the tools to stay ahead," said Jason Sebastian, Ph.D., Executive Vice President of Market Operations. "Faster, more informed materials decisions are becoming a competitive advantage. ICMD® 2.0 helps engineering teams reduce uncertainty, accelerate learning, and keep materials development moving faster."

## Making Predictive Engineering Easier to Apply

ICMD® 2.0 builds on the proven foundation of QuesTek's materials science expertise, physics-based simulation, and materials data, enhancing the ICMD® experience and capabilities



Screenshot of ICMD® 2.0 User Interface

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previously subscribed users already rely on to solve complex materials challenges.

The updated workspace simplifies workflows, while expanded capabilities enable more flexible, connected approaches to materials design, optimization, qualification, and engineering challenges. ICMD® Assist, a new secure agentic AI chat interface, provides integrated, on-demand guidance within the platform, helping users navigate workflows, access relevant resources, and get more from ICMD® as they work through complex materials challenges. ICMD® Assist can help teams onboard more efficiently, reduce reliance on formal training, and build confidence using ICMD® across a broader range of engineering applications.

For existing users, ICMD® 2.0 extends the capabilities of the tools they already know and trust. For new users an on-premises option is now available with ICMD® 2.0.

Together, these capabilities help engineering teams:

- Explore more possibilities earlier by evaluating materials and process options digitally before committing to extensive physical testing.
- Reduce uncertainty by using physics-based models and materials data to understand how composition, processing, structure, and properties interact.
- Make better decisions sooner by bringing relevant analysis and materials expertise closer to the point of engineering decision-making.
- Focus physical testing where it matters most by using predictive engineering to narrow the field and inform experimental priorities.
- Accelerate the path to qualification by connecting materials design and engineering workflows with supply chain dynamics.
- Fully enabling materials responsible engineers who may not be materials scientists with materials science technology.

“Predictive engineering doesn’t replace physical testing; it changes how teams use it,” said COO, Bill Mahoney. “By learning more before they build, engineering teams can make better use of testing, significantly reduce iterations, and move innovation forward faster.”

#### Built to Keep Industry Leaders Ahead

For decades, QuesTek has helped industry leaders tackle some of their most challenging materials problems and turn materials innovation into engineering reality. Through its Materials by Design® technology and deep expertise in physics-based computational materials engineering, QuesTek has helped organizations across aerospace, energy, defense, additive manufacturing, and other demanding industries swiftly advance innovative materials from design through development and qualification into production.

That experience is built into ICMD® 2.0. By combining proven materials science with predictive engineering, QuesTek continues to give engineering teams the tools to make better materials decisions, helping them stay ahead of innovation, reduce development risk, and achieve demanding product performance and schedule goals.

To explore what's new and see how ICMD® 2.0 can help accelerate your materials development, visit [icmd.ai](https://icmd.ai)

#### About QuesTek

QuesTek's Materials by Design® technology and ICMD® software platform are proven to reduce the development time and cost and increase the performance of novel materials. In its market space, QuesTek is the first provider to execute the full cycle from novel design to production, certification, and flight operations with proprietary materials, in a fraction of the time and cost of traditional, or purely algorithmic methods. Fast Company named QuesTek a 2025 Most Innovative Company. [questek.com](https://questek.com)

For more information, visit [questek.com](https://questek.com) or contact Andrea Metzler, Marketing Director at [ametzler@questek.com](mailto:ametzler@questek.com).

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