REVOLUTION in Simulation

News & Updates

Spring | 2026

Cutting Edge Simulation

Rev-Sim is the industry's vendor-agnostic information source for cutting-edge engineering simulation. On this free online community, you'll have access to information and reference materials to help plan, implement, and maximize your next-generation simulation usage and investment.

Learn more at **rev-sim.org**

AI & Generative Design:

Participate in this Industry Study

We're working to understand how emerging AI and generative design tools are being used and where adoption is headed. Whether you're actively applying it or beginning to explore the fundamentals, your perspective matters.

Please take a few minutes to participate in this short survey.

Thank you!

take the survey here

What's New

rescale

Innovation Elevated™

Accelerated Computing.
Driven by Data.
Powered by AI.

Rescale Joins Rev-Sim!

Rescale advances innovation and scientific discovery by providing a comprehensive digital engineering platform built for the AI era. Rescale's platform integrates high performance computing, advanced modeling and simulation, data intelligence, AI physics, and agentic engineering to create compounding value that accelerates product development and empowers digital transformation.

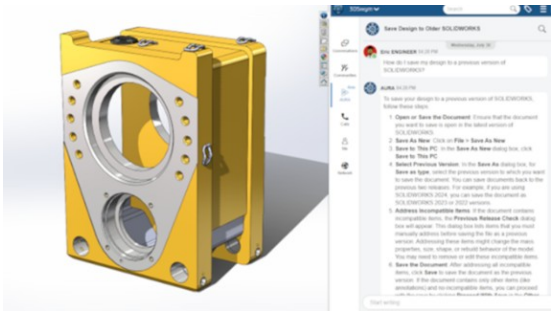
Rescale's platform delivers the world's largest network of engineering and R&D applications, intelligent automation, and computing infrastructure to enterprises across aerospace, automotive, energy, life sciences, semiconductor, manufacturing, and the public sector.

learn more

Are You Overwhelmed by AI Developments?

The pace and breadth of recent developments in AI are placing unprecedented demands on engineering leadership, operations, and strategy. Many businesses find it's not just about adopting AI. They are also overwhelmed by integrating, governing, and deriving clear business value from AI technologies.

This article explores the key AI-transformative trends overwhelming engineers and the actions to respond to them.



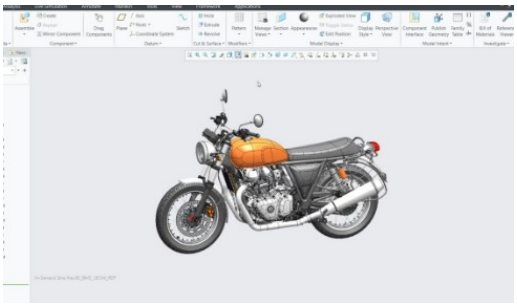
How AI is Quietly Changing Life for Mechanical Engineers

Mechanical engineers don't wake up thinking about AI. They wake up thinking about deadlines, drawings, and tolerances; that one mate that broke again, and whether today will be the day the design finally feels done.

There's been a lot of hype over AI in the last few years, but lately something has shifted, and it's a good time to pay attention. AI has stopped being a demo on a keynote slide and started showing up where real work happens inside sketches, assemblies, and drawings.

read the article

read the article



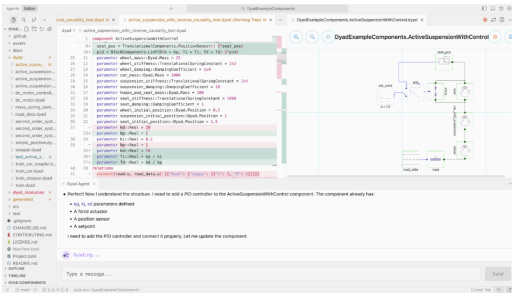
AI-Powered Generative Design Moves Engineers from Iteration to Innovation

For decades, engineers have walked a line, brainstorming concepts, building models, running analyses, and refining geometry step-by-step.

But what if that process could be not just faster, but fundamentally better? What if thousands of physics-based design alternatives could be explored in the earliest stages of development?

That's the impact of AI-powered generative design.

read more



JuliaHub's Dyad Brings Agentic Intelligence to Physics Based Engineering

Dyad AI brings an AI-for-Science environment to product development. Users can model and interrogate systems, research formulations, derive governing equations, assemble models, run high-fidelity simulations, and verify physical consistency at each step.

Dyad AI allows engineers to review and guide while executing the end-to-end workflow to validate behavior, tune parameters, and refine designs through automated, physics-grounded loops.

read more

Featured Blog

Smarter Engineering with CAENexus: Automating the Future of CAE

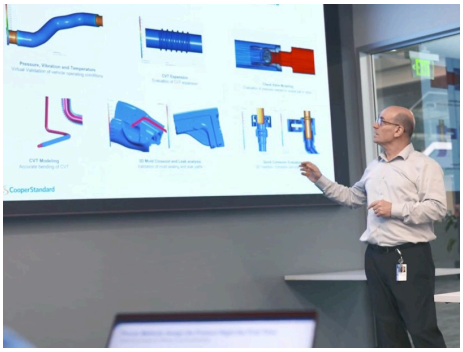
Engineers face an ongoing challenge, deliver innovative products faster while maintaining accuracy and reducing costs. Traditional CAE processes often involve repetitive manual steps:

- Preparing models
- Meshing
- Setting up boundary conditions
- running simulations
- extracting results
- compiling reports

When repeated across multiple design variations the cycle becomes a bottleneck, slowing innovation, increasing risk of human error, and consuming engineering time. This is where CAE automation and platforms like CAENexus make it accessible, scalable, and collaborative.

read more here

Did you miss it? On-Demand Webinars



How Cooper Standard Accelerated Engineering Decisions with Rapid Results Review

As automotive OEMs accelerate the shift to virtual-first development, suppliers are under growing pressure to replace physical testing with simulation. Many times, this requires 3 - 5 times more digital test results from simulation teams to satisfy these new demands.

Often companies are asked to deliver without increasing analyst headcount or resources.

watch it here

Insights from Mitsubishi Electric: Building High-Fidelity Models with Dyad & Scientific Machine Learning

In this webinar, Laughman and Subramanian will share how MERL used Dyad's ModelingToolkit-based workflows together with machine learning techniques to develop a non-invasive state estimation approach.

By leveraging pressure and temperature data, their method can predict refrigerant mass and other hard-to-measure system variables with high accuracy, achieving errors of less than 2%.

watch it here

more on-demand webinars

Partners Spotlight

BETA CAE Systems allows engineers to deliver high value results through high-performance software and best-in-class services. Our simulation solutions unleash low-risk and high Return on Innovation Investment. We established our reputation in the Automotive sector and now support engineers throughout Aerospace, Defense, Biomechanics, Electronics, Energy and other Industries.

Our groundbreaking technology, excellent services and high standards of business ethics are the three pillars on which we are built.

website

Novus Nexus offers smarter solutions to automate simulation processes easily and reliably. Our tools work seamlessly with various commercial and open-source CAD, CFD and FEA solvers to naturally capture simulation know-how for consistent application of best practices, enable CAD designers to run dependable simulations, and optimize the use of simulation resources, both human and software. Simulating better with us, these advantages culminate in the ability to make correct design decisions faster, streamline development processes and so increase innovation and throughput.

website

SOLIDWORKS Simulation provides easy-to-use structural analysis capabilities, fully embedded within SOLIDWORKS, for predicting a product's real-world physical behavior by virtually testing CAD models.

SOLIDWORKS simulation solutions offer everything designers need for linear, nonlinear, static, and dynamic analysis. For more challenging simulations the 3DEXPERIENCE WORKS portfolio provides connected, powerful and collaborative simulation solutions on the cloud with full SOLIDWORKS data associativity.

Simulation analysts must create time-consuming, 2D simulation reports, usually in PowerPoint, to share information widely, leaving design, release, and manufacturing engineers to make decisions without all the facts.

VCollab combines these actionable insights, from multiple simulation tools, into a single, compact, vendor-neutral, 3D Digital CAE Report viewable from any device with a browser. Moreover, VCollab automates the process of creating these 3D Digital CAE Reports, saving valuable analyst time.

website

website

And Finally... Upcoming Events

ACE 2026 - April 13-16

AI: The Next Level of Democratizing Simulation is Here - April 14

CadenceLIVE - April 16

PTC Global Summit - April 27-30

PLM Road Map & PDT North America - May 6-7

SIMULIA Americas Users Conference - May 13-14

NAFEMS Americas Users Conference - May 27-29

find more here

Rev-Sim, LLC | PO Box 498038 | Cincinnati, OH 45249 US

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