

# 3DEXPERIENCE FOR EDUCATION

Digital platform to prepare the workforce of the future



## 3DEXPERIENCE ON THE CLOUD – YOUR SOLUTION TO VIRTUAL EDUCATION

In today's competitive job market, students need every advantage they can get. Dassault Systèmes **3DEXPERIENCE**® platform brings new capabilities to educators and students who want to experience the engineering practices of industry leaders for increased employment opportunities in the new global economy.

The **3DEXPERIENCE** platform empowers the education world with all the necessary tools to maintain learning continuity, teamwork, and knowledge acquisition, even if your students are spread out over thousands of miles.

The heart of the **3DEXPERIENCE** platform is collaboration, making it an ideal environment for a **virtual classroom**:

- Member management with complete visibility into and control over their digital teaching resources
- The capacity to deliver their lessons in a 3DDashboard as if they were in a physical classroom, with real-time collaboration
- A rich environment to organize their curriculum, and offer students a range of learning activities while clearly outlining expectations and deadlines



# PREPARING THE WORKFORCE OF THE FUTURE

Powered by the platform **3DEXPERIENCE** for Education, the most advanced software for product and learning innovation is available in the cloud, right at your fingertips. Years of collaboration with educators and students across a wide variety of institutions and disciplines has led to a flexible, tailored set of learning solutions. It offers the ideal infrastructure for bringing industry practices into learning. Encompassing comprehensive CAD, CAM, CAE, and simulation capabilities, the **3DEXPERIENCE** platform provides powerful solutions for managing collaborative work and joint innovation.

## The benefits of the platform for educators:

- Manage all your classes, students, curriculum, assignments, projects, and more, all connected together on a single platform.
- Provide apps to design, simulate, refine, organize, manage, and collaborate on content in real-time.



- Innovate, collaborate, and create great designs anytime, anywhere, from any device—including Macs and mobile devices (cloud apps only).
- Reduce hardware infrastructure costs, IT overhead, and software maintenance.



**3DEXPERIENCE** for Education offers loads of flexibility to grow and expand as your classroom grows and expands its knowledge. **3DEXPERIENCE** for Education is structured as sets of roles corresponding to typical industry activity profiles. You choose the roles that best fit your needs and the needs of your students. These solutions come in five pack sizes to accommodate any size classroom (10, 30, 100, 300, 900).

The **3DEXPERIENCE** for Education offering consists of the following roles:

- Collaborative Business and Industry Innovator
- Project Collaborator
- 3D Designer
- **3DEXPERIENCE SOLIDWORKS**
- **3DEXPERIENCE** Engineer



# COLLABORATIVE BUSINESS AND INDUSTRY INNOVATOR

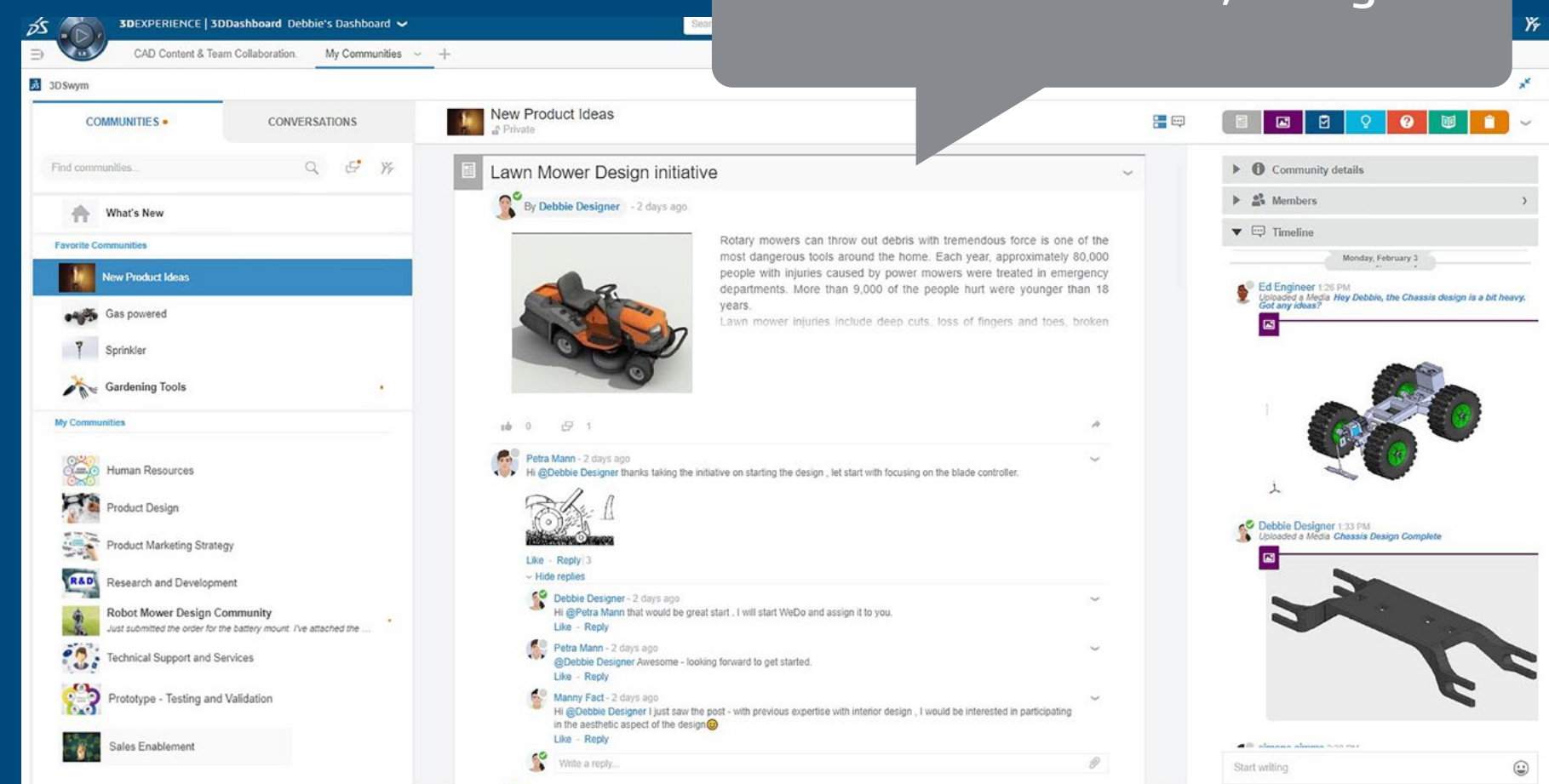
**3DEXPERIENCE** for Education begins with Collaborative Business and Industry Innovator. These roles are the required backbone to our education offering and form the strong foundation to build the solution that best fits the needs of your school and its students.

These roles connect educators with their students, students with each other, and everyone with their data all in one streamlined place—it's a home for everyone. Combining this with access to your data all in real-time accelerates learning and allows your students to dream bigger and build the impossible.

**DID YOU KNOW?**



With tools to organize and manage projects and collaborate on content in a social media setting, you and your students will have access to everything in a single database and unique environment to create the future of tomorrow, today.





# WHICH ROLE IS RIGHT FOR YOU?

With **Collaborative Business and Industry Innovator** as the foundation, educators determine which additional roles to add to benefit their needs and those of their students the most.

## Project Collaborator for Education

Connect legacy SOLIDWORKS® Desktop data to the powerful **3DEXPERIENCE** platform, enhancing your students' design and engineering abilities.



Easily upload to the platform and manage legacy SOLIDWORKS files, projects, and curriculum, connecting students to their data. Take advantage of the advanced lifecycle management tools of the platform, embedded right into your SOLIDWORKS CAD interface.

With the Project Planner app, dramatically increase collaboration using social-media-inspired communities and newsfeeds, synced with your 3D data, all connected together via the platform. Collaborate anywhere, on any device with access to your project data, team members, and important milestones. An integrated commenting tool and linked cloud storage make team projects and planning easier than ever.

Focus on planning critical aspects of projects and enable real-time insights that allow for on-time completion of projects, instilling best practices proven by industry to prepare your students for the real world.



## 3D Designer for Education

Built with the student of tomorrow in mind, the **3DEXPERIENCE** platform is a portfolio of tightly integrated cloud-based solutions.

- Connect your existing SOLIDWORKS data to the platform for extended benefits like collaboration, Design Guidance, Design Assistant, and sub-D modeling.
- Easily and quickly create parametric 3D models with 3D Creator and complex, organic shapes with 3D Sculptor—all in your browser.
- Review, evaluate, and mark up 3D models with 3DPlay and then post directly to your dedicated 3DSwym Community for instant feedback.
- Manage team projects and plan key milestones, while remaining seamlessly integrated with SOLIDWORKS CAD, allowing for direct execution of assigned tasks.

Includes most applications within Project Collaborator.



**CONNECT YOUR  
EXISTING SOLIDWORKS  
FILES FOR ENHANCED  
CAPABILITIES!**



## 3DEXPERIENCE SOLIDWORKS for Education

3DEXPERIENCE SOLIDWORKS for Education is the intuitive, robust SOLIDWORKS Premium 3D CAD solution you know and love, connected to the cloud-based 3DEXPERIENCE platform enabling anytime-anywhere learning and design.

The role allows educators and other technical faculty to help their students build the skills they'll need to compete in today's competitive job force. Directly integrated within 3DEXPERIENCE SOLIDWORKS, the 3DEXPERIENCE platform provides:

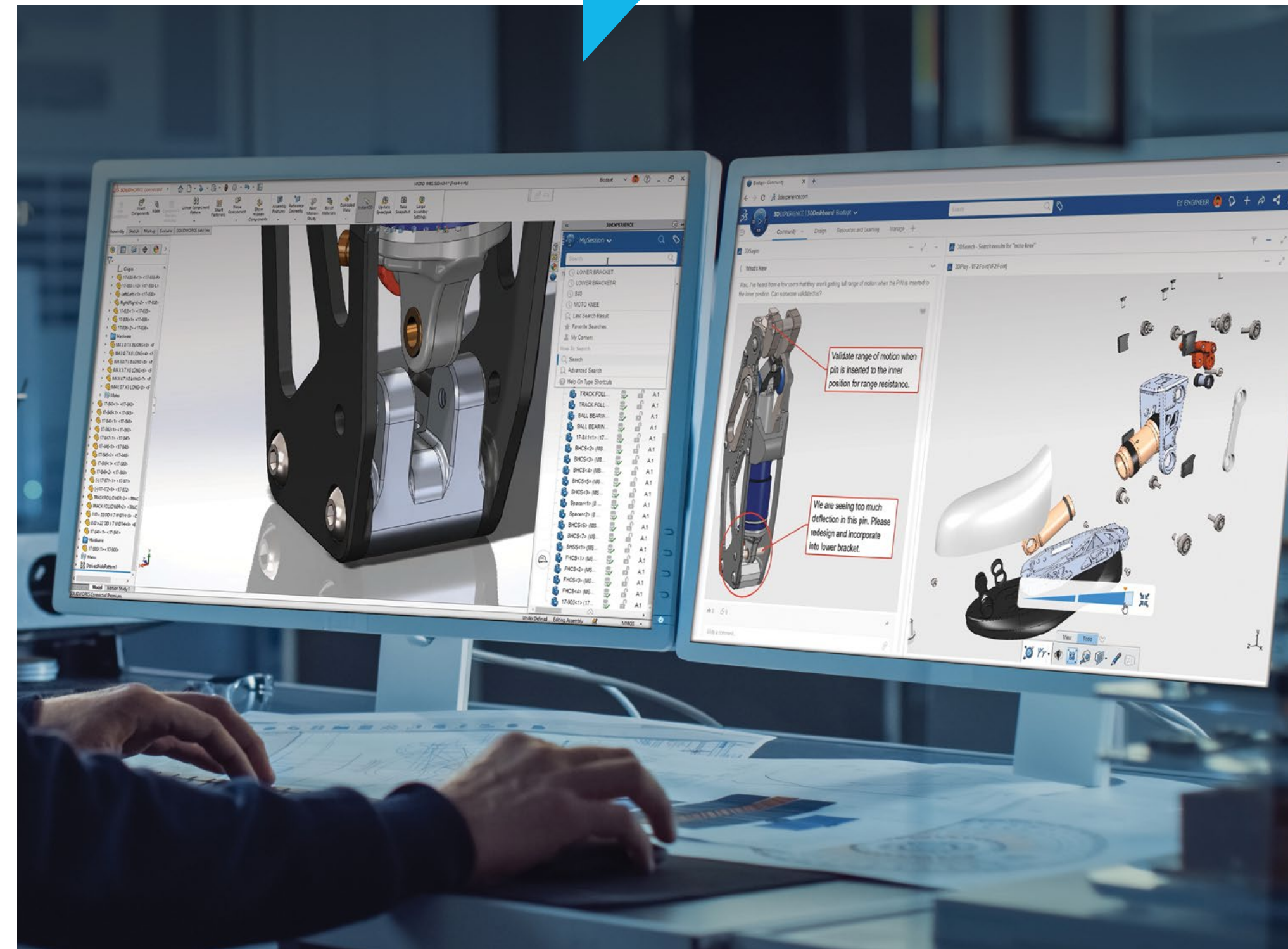
- Secure, robust cloud data management
- Integrated life cycle management
- Task management
- Collaboration tools

3DEXPERIENCE SOLIDWORKS for Education goes beyond design and engineering, letting instructors manage classes, students, curriculum assignments, and projects from within a single integrated platform.

SOLIDWORKS Visualize Connected is also included with this role.



**HANDS-ON EXPERIENCE  
WITH INDUSTRY-  
LEADING ENGINEERING  
PRACTICES**

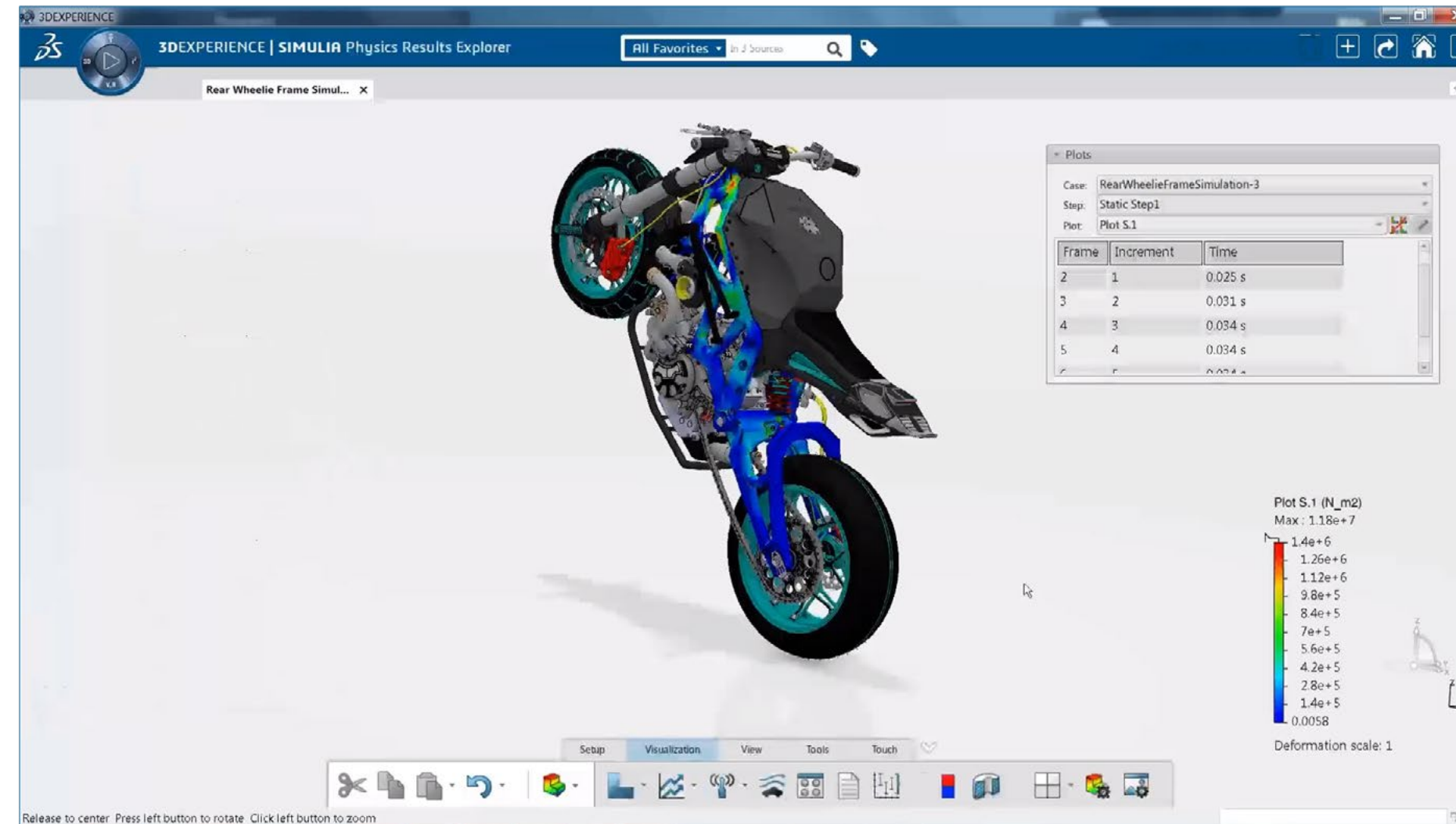




## 3DEXPERIENCE Engineer

**3DEXPERIENCE** Engineer is a portfolio of solutions across the entire design manufacturing ecosystem and proven industry workflows, all connected together through the **3DEXPERIENCE** platform. Access powerful capabilities from other leading Dassault Systèmes brands for 3D design (CATIA), simulation (SIMULIA), manufacturing (DELMIA), and product data and lifecycle management (ENOVIA). Most of these advanced roles are installed locally and seamlessly connect your data to our cloud-based platform.

In today's ever-changing world and technology landscape, keep ahead of the curve with access to the same tools the pros use in the workplace. **3DEXPERIENCE** Engineer provides a suite of connected tools and apps specifically cultivated for the broader toolkit required by the designers and engineers of tomorrow. Cement industry-proven best practices of today to propel your students after graduation and beyond.



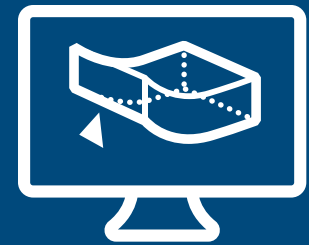


**DID YOU KNOW?**

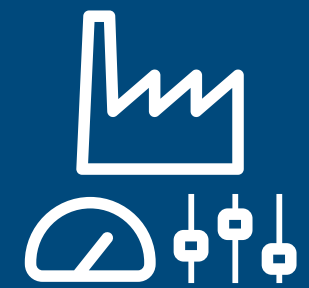
**3DEXPERIENCE Engineer includes these domains:**



**3D Design** – With several CATIA apps from the powerful Dassault Systèmes 3D portfolio, students get access to advanced part design and surface design, advanced electrical wiring and routing, photorealistic virtual reality reviews and so much more.



**Simulation** – With SIMULIA and its powerful ABAQUS solver, students get access to a complete set of advanced simulation analysis tools to help improve part or product performance. Students are able to conduct structural static, frequency, buckling, modal dynamic response, and structural-thermal analysis of parts and assemblies, as well as aerodynamic simulations, and advanced fluid dynamics simulations.



**Manufacturing** – To help with rapid prototyping of custom parts, students can use advanced machining roles and apps from our DELMIA brand. This includes 2.5-, 3-, and 4-axis machining to easily define tool paths and bring their part to life.



**Product Data and Lifecycle Management** – Product data and lifecycle management solutions from ENOVIA enable teachers to connect all of their most vital resources—students, software tools, and data—in one unified, secure place to collaborate on designs more easily, keeping projects and students on track. By bringing industry best practices into best practices learning, students will learn to manage product designs, version control, and documentation directly on the cloud from any device—data truly at your fingertips.





## REAL-TIME COLLABORATION

**3DEXPERIENCE** for Education goes beyond just design and engineering tools. Your education platform comes loaded with communication and collaboration apps—all in real-time.

- Via an intuitive, web-based interface, educators can easily create collaborative “communities” to foster collaboration among their students, answer questions, or simply keep them posted on class assignments.
- Students can start projects on campus, continue at home, and discuss ideas with their classmates within these Communities—speeding up the design cycle.
- Built-in cloud storage helps students avoid the risk of drifting out of sync on model revisions or assembly configurations, and instead focus on the real design work.
- Integrated project management tools allow educators to assign projects, and split up responsibilities, with direct links between tasks and models created throughout the project’s life.



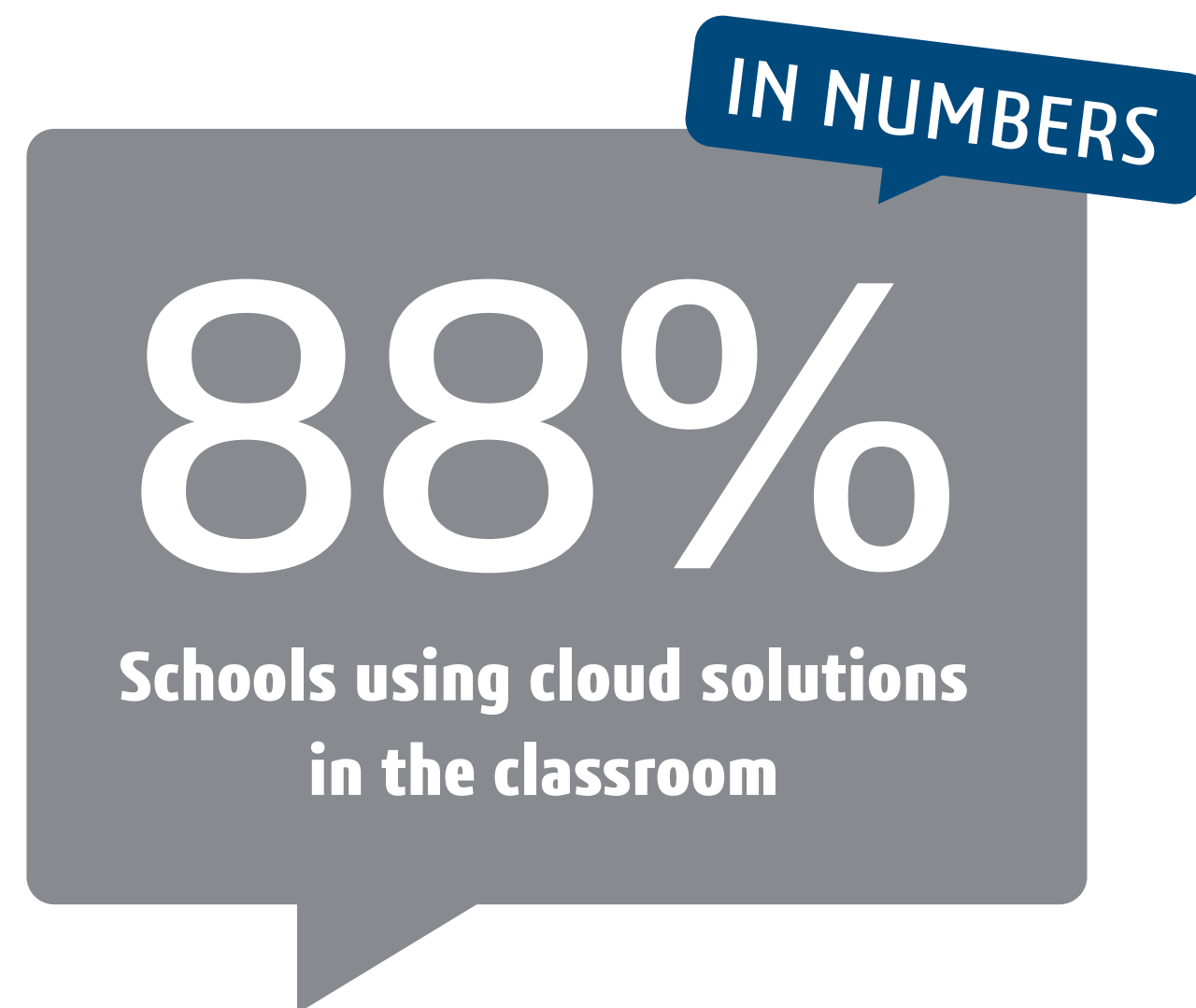


## WHY ON THE CLOUD?

With installation as fast as 10 minutes and no IT support required, **3DEXPERIENCE** for Education opens a new playground for educators and learners. Almost instantly, you can access the vast field of solutions that have revolutionized worldwide industry processes during the last decades.

- **Simple IT: Easy installation** – With many apps on the cloud, **3DEXPERIENCE** for Education works on multiple devices, requiring only a 3D graphics card and internet access. For technical requirements and a compatibility check, please refer to the website Support section.
- **Plug & Play startup: Instant availability** – The **3DEXPERIENCE** platform—with advanced collaborative features—is downloaded and installed on devices on the fly and fully configured in minutes.
- **Simple maintenance: Secure, available 24/7, always up-to-date** – The **3DEXPERIENCE** platform is continuously serviced and customer data is protected. The platform and its client software are automatically upgraded when a new version is available in order for you to benefit from the latest enhancements and features.

- **Simple access: Anytime, anywhere** – **3DEXPERIENCE** for Education is available from the lab, from home, from other institutions, or any location, without struggling with firewall issues. Collaborative, regional, or international projects have never been so easy and natural.
- **Simple acquisition: Predicable and affordable** – Prices include all use and service costs. Any configuration is easily scalable.



## ADDITIONAL RESOURCES

The value of **3DEXPERIENCE** for Education hinges on the diversity of its community—students and teachers, all aiming for the same goal: to reinvent the way they learn, teach, make, and share to imagine and design sustainable innovations.

Collaboration being at the heart of our solutions, the following 3DSwym Communities are resources available to students and teachers. A **3DEXPERIENCE** ID is required.

### **3DEXPERIENCE** Edu | Students

This community welcomes all students using the **3DEXPERIENCE** Academic platform to exchange ideas, share their work, and get help when needed from our experts.

### **3DEXPERIENCE** Edu | Academics

This community welcomes all academic faculty members, teachers, teaching staff who are using Dassault Systèmes **3DEXPERIENCE** Academic platform in their schools.

This community keeps members informed on new developments on the platform, new initiatives, contests for students, and availability of new learning content. Educators are encouraged to ask questions and share ideas, case studies, achievements, and pedagogical innovations.

Learn more about the cloud-based **3DEXPERIENCE** for Education platform that provides teachers and educators access to a growing portfolio of solutions that work together seamlessly.

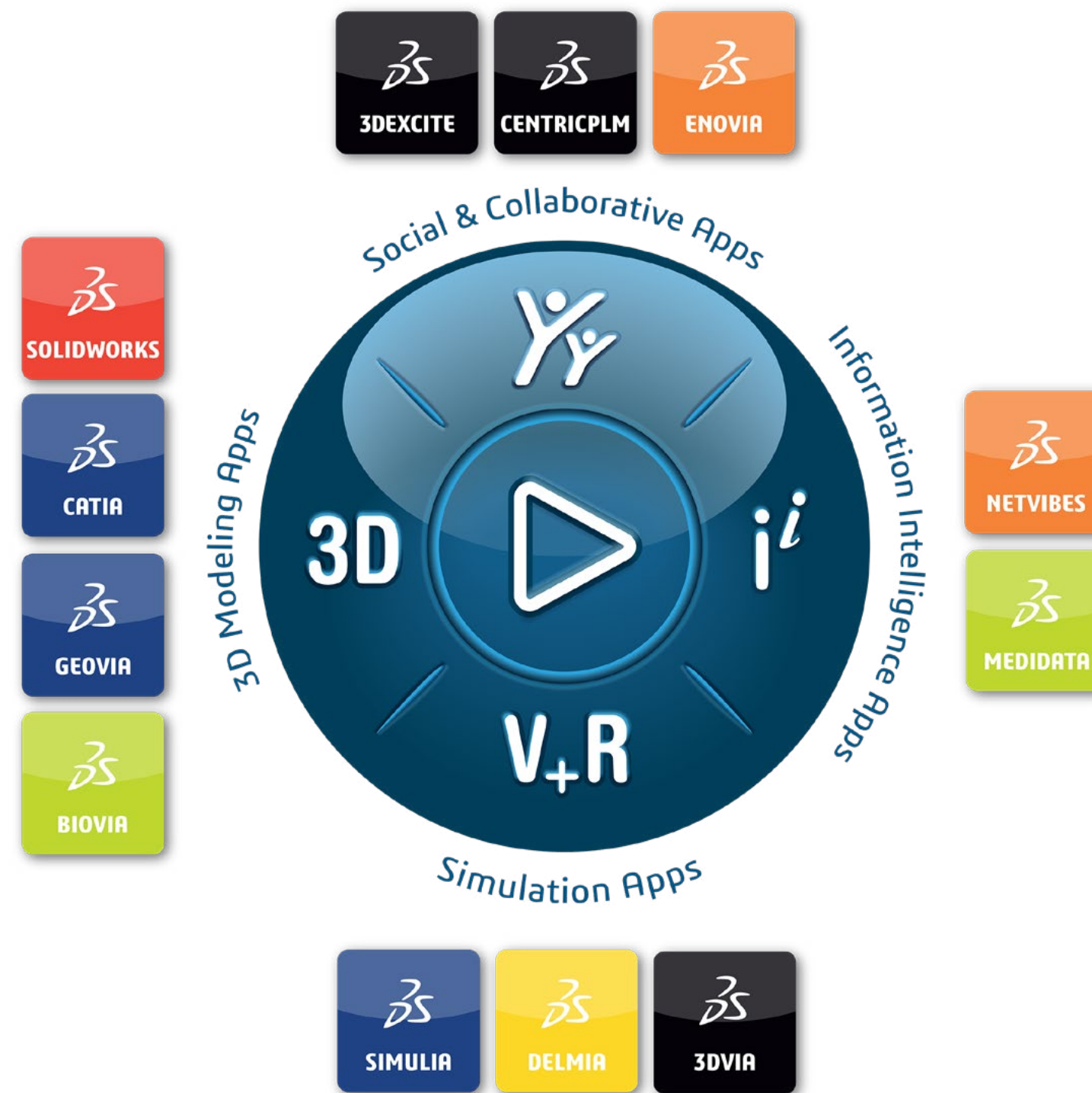
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Our **3DEXPERIENCE®** platform powers our brand applications, serving 11 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the **3DEXPERIENCE** Company, is a catalyst for human progress. We provide business and people with collaborative virtual environments to imagine sustainable innovations. By creating 'virtual experience twins' of the real world with our **3DEXPERIENCE** platform and applications, our customers push the boundaries of innovation, learning and production.

Dassault Systèmes' 20,000 employees are bringing value to more than 270,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit [www.3ds.com](http://www.3ds.com).



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