

PREPARE YOUR CAD STUDENTS FOR THE FUTURE

Transforming Classrooms with the 3DEXPERIENCE Platform



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Educating Students for Tomorrow

As an educator, your goal is to prepare your students for success in their careers. Technology is evolving rapidly, and students need access to tools that already reflect industry standards and practices.

The CAD industry is trending towards:

- always having access to the most up-to-date information
- instant collaboration
- the ability to work on projects anytime, anywhere

How can you bring this reality into your classroom?

With **3DEXPERIENCE**, the platform setting the standard in today's industry.



The Value of Industry Standard CAD Tools

SOLIDWORKS and CATIA are trusted tools from Dassault Systèmes which are widely used every day by commercial industrial companies, individual makers, and educational institutions. These tools have been in the market for many years and are constantly being developed to meet evolving needs.

By teaching your students with these tools, you align your curriculum with industry expectations and equip them with hands-on experience that makes them job-ready from day one.

However, you can further **prepare your students for success** in their future careers by building on these trusted solutions while introducing the advanced collaboration and cloud-based capabilities of the **3DEXPERIENCE** platform.





3DEXPERIENCE: A BRIDGE TO THE FUTURE

While these solutions alone have been enough in the past, the constant evolution in the industry requires schools to adapt their software solutions as well. Using the **3DEXPERIENCE** platform allows you to enhance your teaching methodologies with **cloud-based collaboration**, **real-time data sharing**, and **integrated design tools**.

This shift also ensures students are not just learning industry standards but are also adapting to modern workflows that dominate today's competitive engineering landscape.

Offering proven solutions to students helps to:

- attract students to your institution by offering recognized, reliable software
- empower students with a skill set that makes them competitive in the future job market
- bridge the gap between classroom learning and real-world industry practices



Simplify Your Teaching Workflows

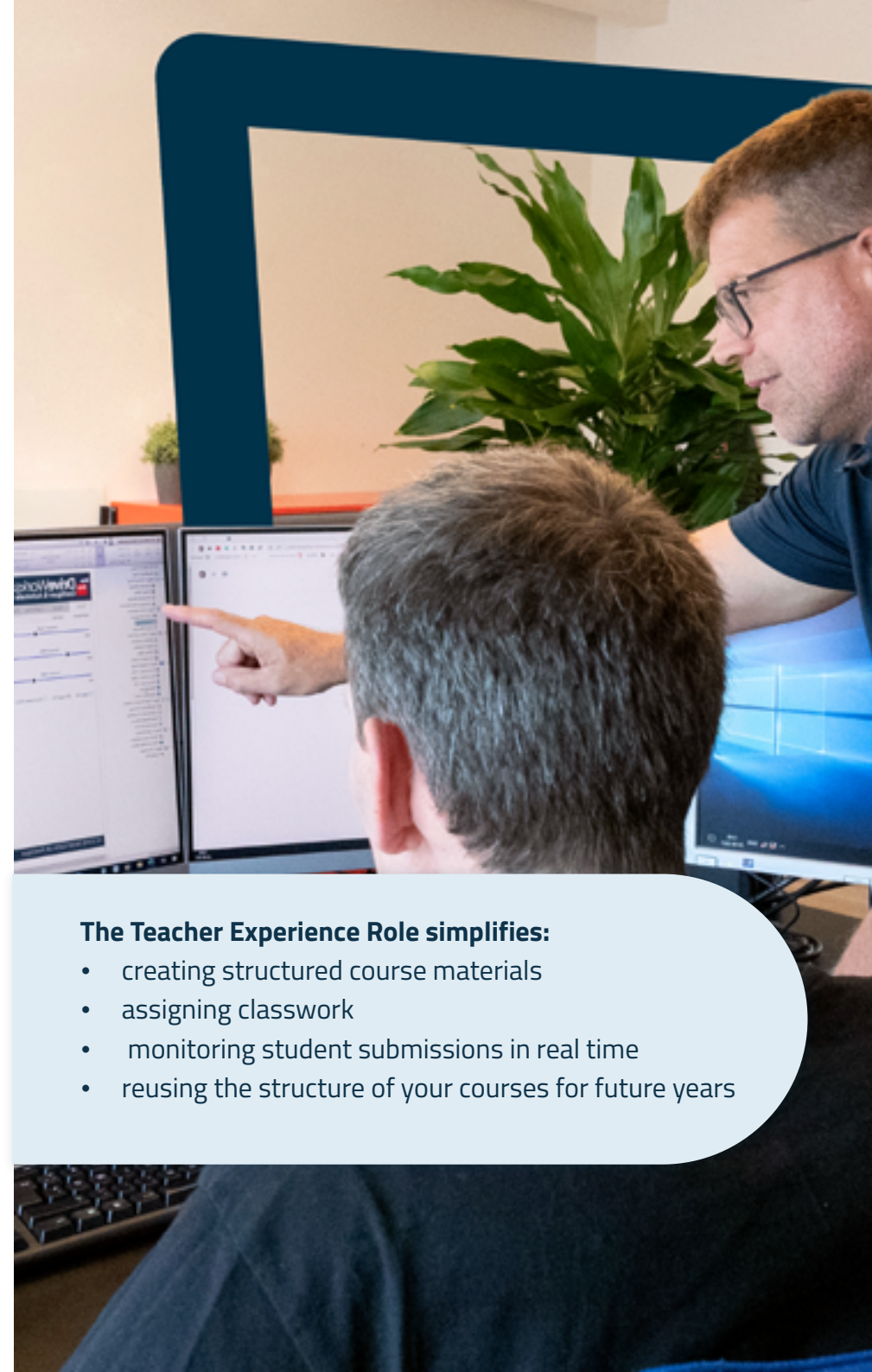
The **3DEXPERIENCE** platform offers a range of benefits that can simplify your workflow as an educator, and with the Teacher Experience role it's easier than ever to keep everything organized and running smoothly.

MANAGE YOUR FILES

The platform supports a wide range of file types including 3D models, 2D drawings, and simulations from CAD tools like CATIA and SOLIDWORKS. It also supports a wide range of various document formats, and there is no need to have a special viewer to see the file content. You have everything you need within the web browser- whether you're using your laptop, phone, or tablet. The Teacher Experience role gives you access to tools specifically built to save educators time.

The software is designed to allow you to easily:

- manage student projects and assignments
- organize students into groups
- store curriculum or task materials in one central location
- access student work
- review student progress
- leave feedback
- foster collaboration and cooperative learning
- ensure your software is always up-to-date



The Teacher Experience Role simplifies:

- creating structured course materials
- assigning classwork
- monitoring student submissions in real time
- reusing the structure of your courses for future years



MANAGE YOUR STUDENTS

Easy Class Setup

Creating a class takes just a few clicks. When you add students:

- New users receive automatic invitations to join the platform.
- Existing users are notified and added to the class immediately.
- You can create separate classes for group projects to streamline collaboration.

Ongoing Enrollment Management

- Teachers with administrator rights can add or remove students at any point during the semester.
- Course communities are created automatically, offering students a collaborative space to share updates, access resources, and manage deliverables.

Centralized Student Work & Feedback

- All student files are saved in a secure, cloud-based location.
- Teachers can:
 - Review assignments and check progress.
 - Provide feedback via comments or markups.
 - Support individuals, groups, or the entire class—directly within the platform.
- Everything is stored in one place, making it easy to track assignments and support student success across the course lifecycle.



MANAGE IT EFFORTLESSLY

Always Up-to-Date

The **3DEXPERIENCE** platform is fully cloud-based, meaning:

- Software updates are automatic and frequent throughout the year.
- You always have access to the latest tools without the need for manual installation.
- There's significantly less demand on your IT department.

Streamlined Maintenance

- Locally installed tools like CATIA or SOLIDWORKS will alert you in advance when updates are required, so you can plan accordingly.
- All servers and cloud storage are upgraded and maintained automatically which means no need for local infrastructure.

Easily Manage Course Transitions

The *Teacher Experience Role* makes it easy to transition between semesters. At the end of the semester, you can archive or delete an entire class with a single click, removing collabspaces, user groups, and bookmarks automatically. While the class content is cleared, your original course structure remains available, making it easy to reuse for future terms.

Set Students Up for Success

The **3DEXPERIENCE** platform offers students powerful tools to prepare for successful careers. It can accept 3D models from most industrial CAD tools, like SOLIDWORKS and CATIA.

There are also several browser-based CAD tools available that do not require installation and can be used without the need for a specific high-performance computer. With just a web browser, students can easily create 3D models on virtually any device.

The platform makes it easy to collaborate with fellow students, especially when working with 3D models and 2D drawings. Cooperation with classmates is easy, and it is reassuring to know that the content is stored safely and does not require any special software to view it – it is all there in your web browser.

→ KEY COLLABORATION FEATURES FOR STUDENTS:

- Documents can be saved to the platform and **previewed on any device**.
- Students can see their teammate's **3D models without sending any files** to them. It's all accessible right on the platform.
- Students can easily **check the progress** in a team project and **comment** on their team member's latest models and drawings.
- They can **measure models** and do **quick markups** to communicate back what needs to be changed – **without the need to install extra software to do so**.



Customizable Solutions

The software is bundled into roles that you can choose depending on your needs. They come in 5 different sized packages with 10, 30, 100, 300, or 900 users. This means that you can offer the right software solution to your students whether the solution you need is small, large, or somewhere in-between. You can also choose from the specific roles that align with your curriculum needs.

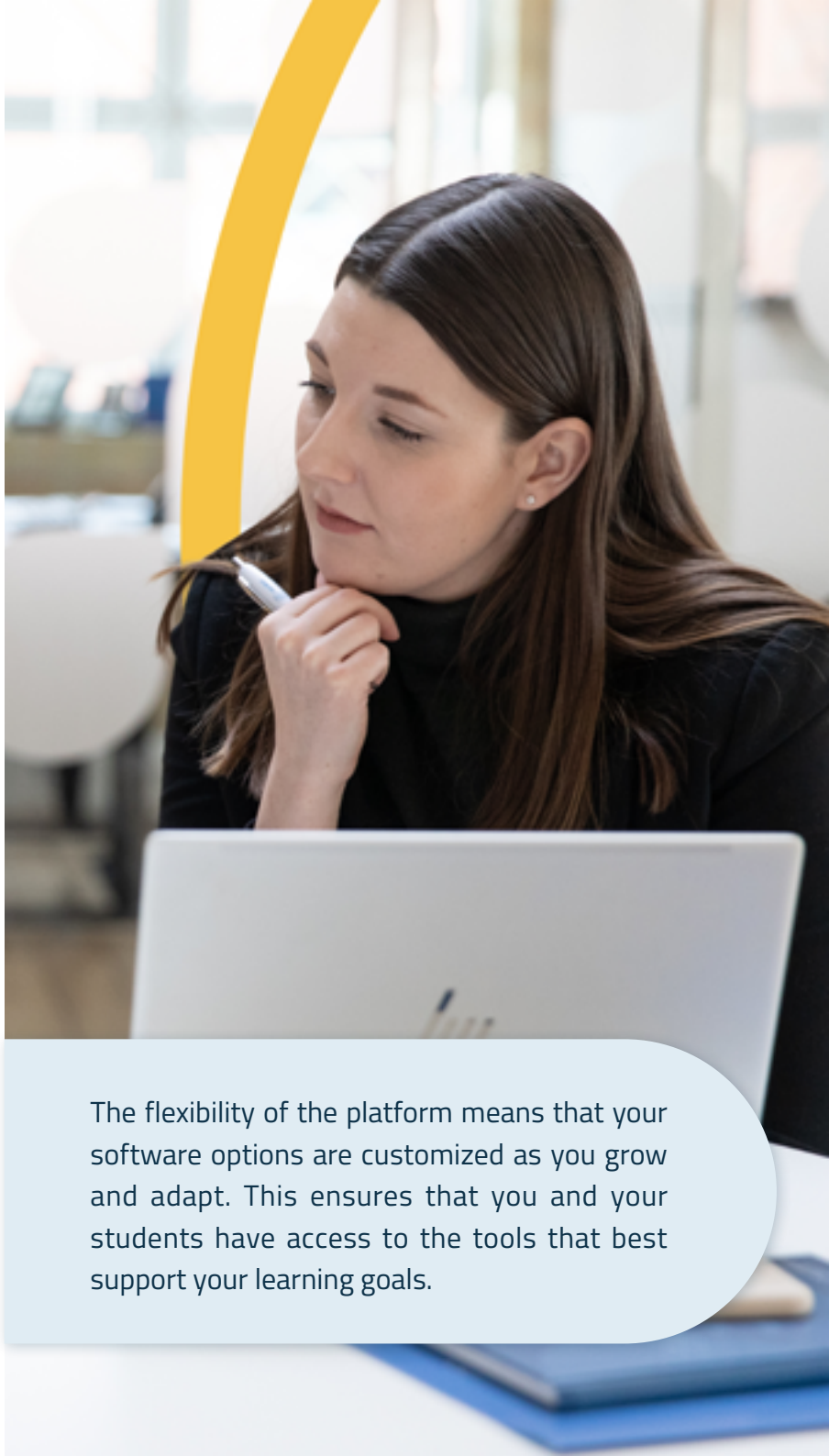
These are the most common Academic Roles offered on the platform:

→ 3DEXPERIENCE Platform for Education

This foundational role is essential for accessing the **3DEXPERIENCE** platform. It centralizes collaboration by connecting educators with their students, students to each other, and everyone with their data in one digital space. Real-time data access and project management tools foster better decision-making and innovation.

→ Project Collaborator

Connect legacy SOLIDWORKS files into the **3DEXPERIENCE** platform to streamline project organization and management. With lifecycle tools and the Project Planner app, students can track progress, collaborate using social-media-inspired communities and newsfeeds, synced with your 3D data, all connected on the platform. Collaborate from anywhere, and access work from any device.



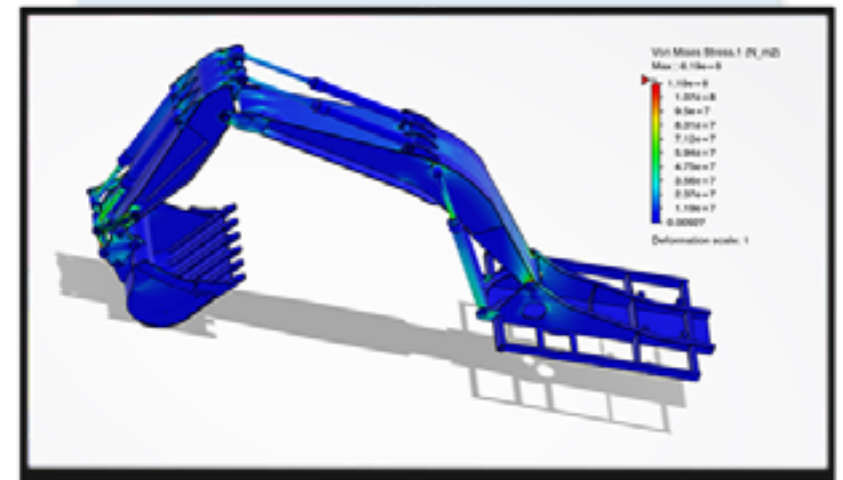
The flexibility of the platform means that your software options are customized as you grow and adapt. This ensures that you and your students have access to the tools that best support your learning goals.

→ Teacher Experience

Teacher Experience is your command center for teaching in the digital age, and it's included automatically with the **3DEXPERIENCE** for Education role package. This 100% cloud-based role streamlines the entire course lifecycle. From setup to semester wrap-up, it gives you **more time to focus on what matters most: teaching, mentoring, and preparing students for success.**

- **Build and Reuse Courses:** Create structured courses once and reuse them each year. With just a few clicks, you can create new classes that inherit the original structure. No need to start from scratch every semester.
- **Manage Classes Easily:** Set up classes in minutes. Add colleagues and students to dedicated collaboration spaces (collabspaces) where files, assignments, and communication are centralized.
- **Distribute and Track Assignments:** Assign coursework, set deadlines, and monitor submissions, all from within one intuitive interface. Provide feedback through comments or markups, and support students at every stage.
- **Keep Everything Organized:** Use integrated tools like 3DSwym communities and dashboards to communicate, organize materials, and facilitate teamwork across your classroom or project groups.
- **End the Semester Smoothly:** With a single click, archive or delete classes to remove collabspaces, groups, and bookmarks while keeping your course structure intact for future use.

The Teacher Experience role reduces your administrative workload so you can focus on impact. With automated class management, real-time student tracking, and flexible course reuse, it brings clarity and control to your digital classroom.



→ 3D Designer

- Designed to prepare students for the future, the **3DEXPERIENCE** platform offers a suite of **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.
- Quickly and easily create **parametric 3D models** with 3D Creator and complex, organic shapes with 3D Sculptor — all in your browser.
- Use 3DPlay to **review, annotate, and share models** within your 3DSwym Community, enabling **instant collaboration** and feedback.
- **Manage team projects** and set key milestones, and execute tasks directly within SOLIDWORKS CAD, maintaining smooth and **efficient workflows**.

→ 3DEXPERIENCE SOLIDWORKS for Education

Experience the same SOLIDWORKS that you are familiar with, now seamlessly integrated with **3DEXPERIENCE**. Created for designers and engineers, **3DEXPERIENCE SOLIDWORKS** combines intuitive and robust 3D design tools with the collaboration and lifecycle management capabilities of the **3DEXPERIENCE** platform. This role allows you to:

- Build **complex 3D models** and production-ready 2D drawings
- Verify designs with **structural** and **motion analysis**
- Evaluate the manufacturability of designs using built-in tools for **dimensions and tolerance analysis**
- Create **photorealistic images** and animations to bring designs to life
- Leverage direct connectivity to platform data for mastering industry-standard practices in **product lifecycle management** and collaboration

→ 3DEXPERIENCE Engineer

3DEXPERIENCE Engineer is a portfolio of solutions across the entire design manufacturing ecosystem and proven industry workflows connected through the platform.

- **Access advanced features** from leading Dassault Systèmes brands, including CATIA for **3D design**, SIMULIA for **simulation**, DELMIA for **manufacturing**, and ENOVIA for product data and lifecycle management.
- Combine the power of locally installed tools with the flexibility of cloud-based connectivity to **streamline workflows and enhance collaboration**.

Certifications that Validate Skills

Your institution can become a SOLIDWORKS Academic Certification Provider and give your students the opportunity to showcase their expertise with academic certifications. Dassault Systemes offers 17 certifications to validate your students' skills in design, engineering, and collaboration tools.

There are 13 certifications available for SOLIDWORKS and 4 for **3DEXPERIENCE** roles. While the SOLIDWORKS certification are valuable for demonstrating specialized skills in areas such as mechanical design, simulation, additive manufacturing, and advanced tools, the **3DEXPERIENCE** certifications showcase the ability to navigate the industry-standard platform. This sets your students apart as innovators ready for the modern workforce. Help your students secure their future with credentials that prove their skills and open doors to new opportunities.



SOLIDWORKS Certifications

CSWA-Mechanical Design - Academic Version

CSWP-Mechanical Design - Academic

CSWA-Additive Manufacturing

CSWP-MBD (Model-Based Design)

CSWPA-Weldments

CSWA-Simulation

CSWP-CAM

CSWP-Simulation

CSWA-Electrical

CSWPA-Drawing Tools

CSWPA-Mold Making

CSWPA-Sheet Metal

CSWPA-Surfacing



HOW PLM GROUP CAN HELP YOU

When you bring new tools into the classroom, you need more than just software. You need a partner you can count on.

With PLM Group You Get:

- Help setting up the **3DEXPERIENCE** platform at your school
- Onboarding support for your teaching staff
- Guidance to make the most of your chosen solution

Our world-class support team is here when and how you need us with:

- 🌐 local support in Swedish, Finnish, Danish, Norwegian, Estonian, Latvian and English
- 📞 connect by phone or email
- 🕒 short response times
- 📅 available all weekdays

Partnering with PLM Group means knowing help from our highly skilled technical experts is always within reach.

REACH OUT TO US

Every Classroom is Unique - so is the Right Solution for You

Choosing the right tools for your students starts with understanding your goals as an educator. Whether you're fostering creativity, technical skills, or collaboration, PLM Group helps you align the **3DEXPERIENCE** for Education platform with your curriculum.

What do You need to Consider to make the Right Decision?

Technology should grow with you. That's why the **3DEXPERIENCE** platform is:

- **Flexible** – Adaptable to your curriculum and student needs
- **Scalable** – Suitable for small classes or full institutions
- **Future-ready** – Tools evolve to stay aligned with industry trends

Ready to Transform Your Classroom?

Contact us to discover how PLM Group can help your institution lead the way in education. We'll help you choose a setup that meets today's needs and supports tomorrow's opportunities. Together, let's turn your classroom into a hub for innovation. **Contact us to learn how.**



"Supporting educators is about more than providing software. It's about making sure they have the right solutions, guidance, and tools to help their students succeed."

[Martin Johansson, Early Engagement Team Leader](#)

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WE MAKE
YOU INNOVATE