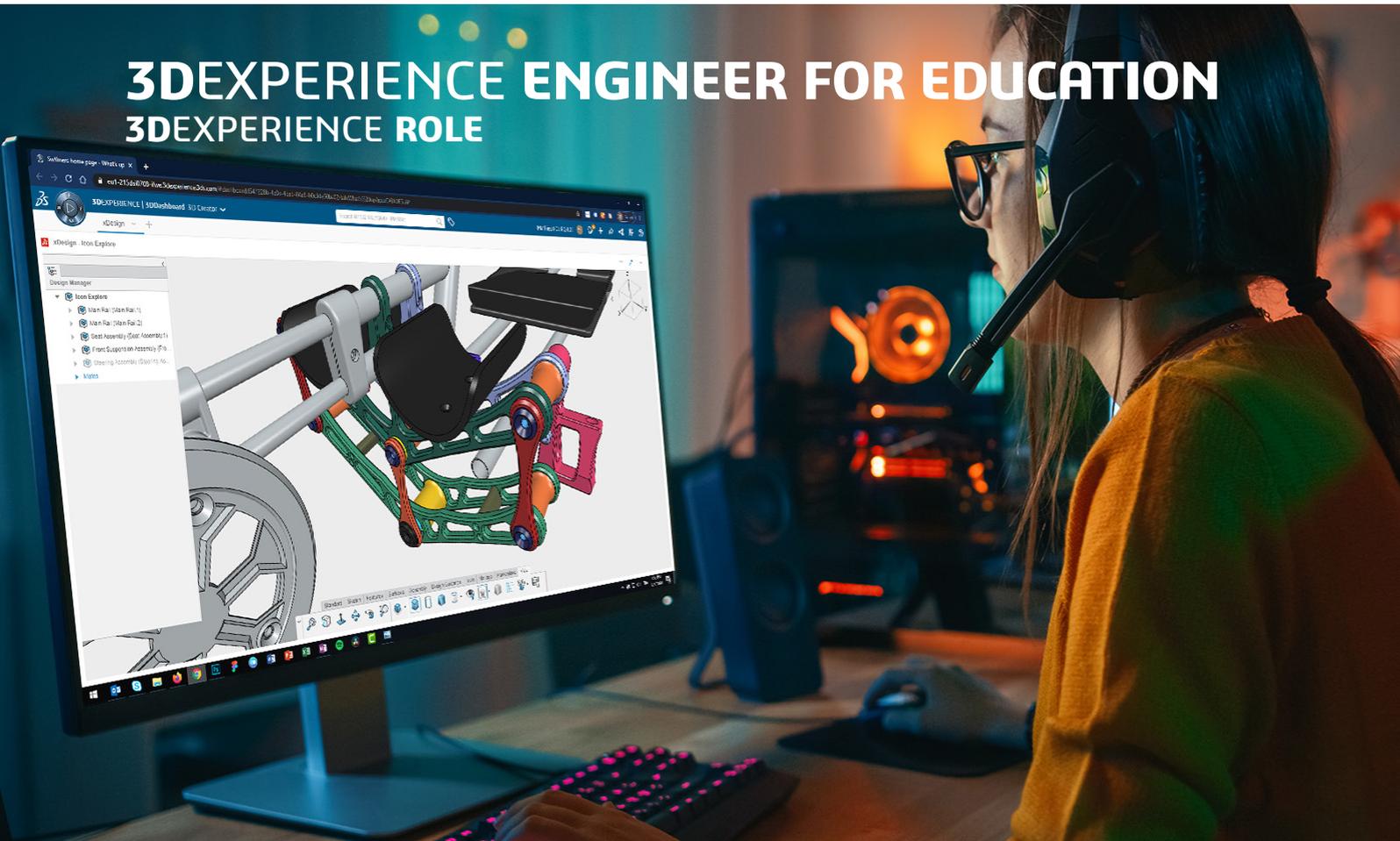




# 3DEXPERIENCE ENGINEER FOR EDUCATION

## 3DEXPERIENCE ROLE



### PREPARE YOUR STUDENTS NOW FOR THE FUTURE OF TOMORROW

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 is a portfolio of solutions across the entire design-to-manufacture ecosystem with proven industry workflows, all connected together through the **3DEXPERIENCE** platform. Our largest collection of apps, this package provides students with 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.



## KEY BENEFITS

- Access powerful capabilities for 3D design (CATIA®), simulation (SIMULIA®), manufacturing (DELMIA®) and product data and lifecycle management (ENOVIA®).
- Extend your design capabilities and innovate faster with intuitive design, advanced simulation, manufacturing, and product lifecycle management—all connected together in the cloud.
- Say goodbye to file conversions, and use the same file format for design, simulation, manufacturing, rendering, virtual reality, and more.

## 3DEXPERIENCE ENGINEER INCLUDES THESE DOMAINS:

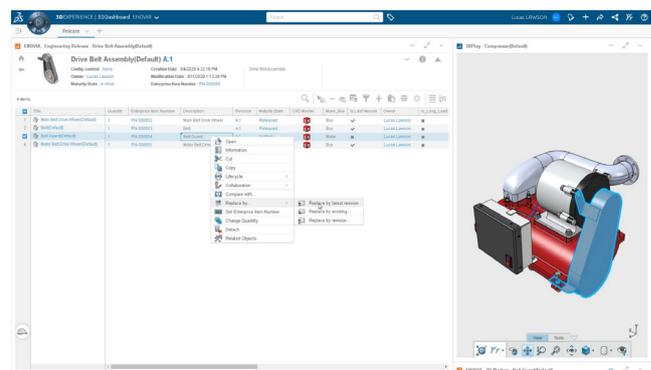
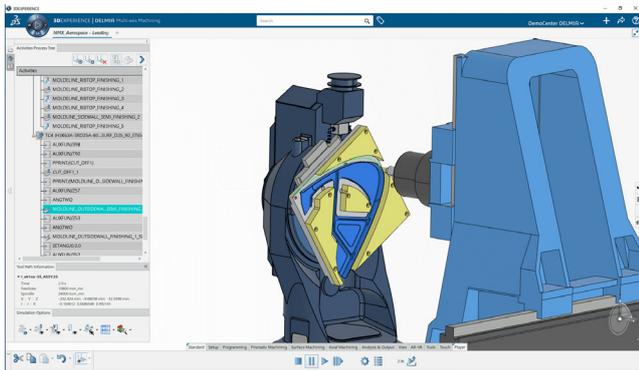


**3D Design** – With several CATIA apps from the powerful Dassault Systèmes 3D portfolio, students get access to advanced part design and surface design, advanced electrical wiring and routing, photorealistic virtual reality reviews, and so much more. With **3DEXPERIENCE SOLIDWORKS** for Education, educators and students benefit from the following platform capabilities:

- Comprehensive part and assembly creation, mechanism motion, 3D mock-up review, and drawing generation
- Advanced function-driven generative design tools to analyze weight reductions, for optimal part performance
- Improve piping, tubing, HVAC system, and route 3D wires in the context of the full product with custom-tailored tools and user interfaces

**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. This is the complete global leading simulation toolkit!

- Create advanced crash tests and structural analysis simulations to improve strength
- Run component stress analyses to reduce part failure
- Run comprehensive aerodynamic and fluid dynamic simulations to optimize performance



**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 parts to life.

- Update tool paths as your design changes: integrated strong associativity with design ensures concurrent engineering
- Validate NC programs early in 3D to detect and prevent possible machining errors
- Create a library of commonly used tool paths to quickly create new programs based on proven sequence of operations

**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 the classroom, students will learn to manage product designs, version control, and documentation directly in the cloud from any device—data truly at your fingertips.

- Streamline data management with integrated revision control and branching from any device
- Reduce design iterations by making reviews and digital mock-ups of designs, design variants, and proposed changes—perfect for group projects with multiple stakeholders
- Accelerate design time with error-free change orchestration and synchronization scenarios, with embedded intelligent change management rules and automation

Click [here](#) to learn more about **3DEXPERIENCE** Engineer for Education.

## 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).



**3DEXPERIENCE**