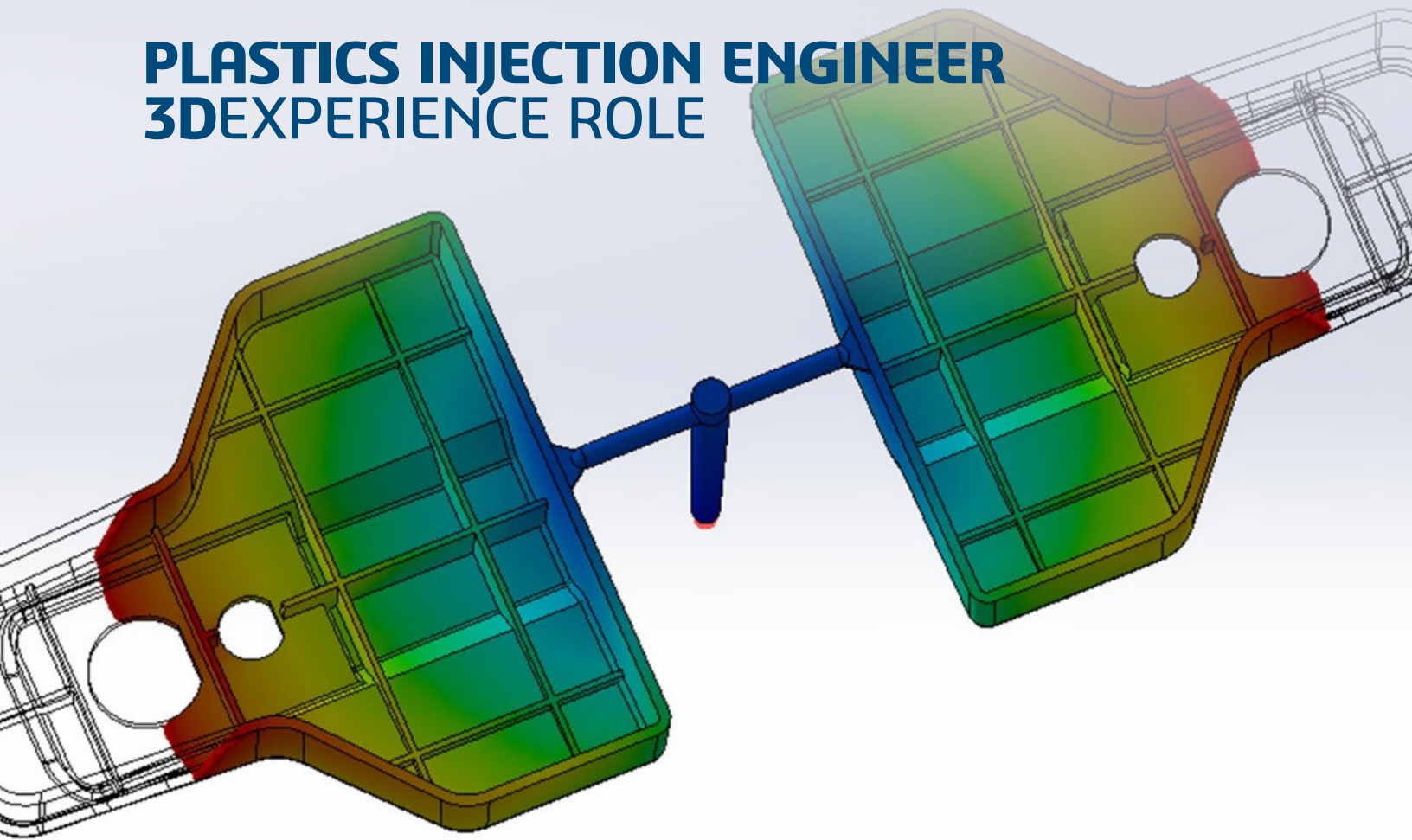# PLASTICS INJECTION ENGINEER
3DEXPERIENCE ROLE

EASILY AND ACCURATELY OPTIMIZE YOUR DESIGNS

Evaluate and improve plastic part and mold tooling designs by simulating the filling and packing process and the mold's cooling system, as well predict plastic part warpage.

Plastic Injection Engineer provides anyone who designs or builds injection molds an accurate, easy-to-use way to optimize them. You can leverage runner and cooling layouts created in CATIA Mold & Tooling Designer Apps or import them from any CAD system. Single-cavity, multi-cavity, and family mold layouts, including sprues, runners, and gates can be analyzed to obtain estimated cycle time, clamp tonnage, and shot size, enabling you to optimize feed system design and avoid costly mold rework. Users can analyze simple or complex mold cooling line layouts and optimize cooling system design to minimize cycle times and decrease manufacturing costs.

Plastic Injection Engineer provides a fully guided user experience tailored for Designers to perform end-to-end product design efficiently on a single collaborative environment of **3D**EXPERIENCE® platform
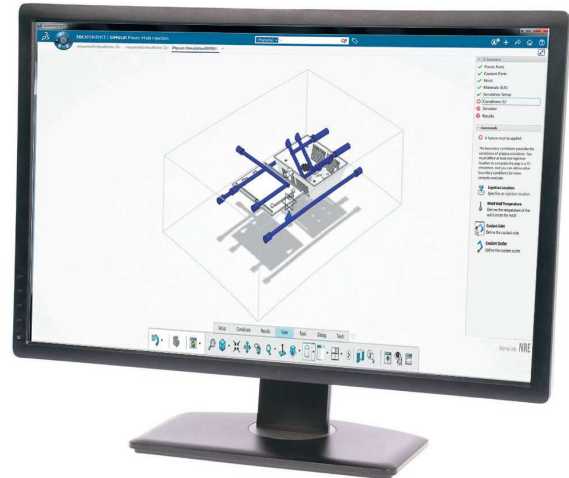
Key Capabilities

- Evaluate effectiveness of mold cooling system designs

- Integration with CATIA Mold & Tooling Design for automatic detection of injection locations, cooling systems, injection system, cavities

- Simple, easy to use interface with a guided simulation assistant to minimize the learning curve

- User Role Highlights

- Mold Cooling, Filling, and Packing simulations; Warpage prediction

- Select contributing parts for cavities, injection system, and cooling system

- Access thermo-plastic material, mold material, and mold coolant databases

- Analyze single-cavity, multi-cavity, and family mold layouts, including sprues, runners, and gates

- Analyze mold cooling line layouts

- Import cooling line layouts and runner systems designed in any CAD system

- Estimate cycle time, clamp tonnage, and shot size, to optimize feed system design and avoid costly mold rework

- Run simulations independently using restart

Capabilities of the 3DEXPERIENCE Platform

With its growing solution portfolio and secure cloud technology, the **3D**EXPERIENCE platform enables enterprises to manage all facets of the product development process while reducing infrastructure costs, IT overhead, software maintenance and complexity. All platform solutions work together seamlessly to facilitate data management, sharing, and collaboration across your entire business ecosystem. Social Business Analyst takes advantage of the following platform capabilities:

- Securely access and share all content and analytics from a centralized, secure location in the cloud from any device. Quickly find and filter information with semantic and smart search.

- Set up tailored dashboards to aggregate essential product data and key performance indicators.

- Easily create social-media-style public or private communities to share and collaborate on ideas and projects, and publish articles and customer feedback analyses.

- Organize your knowledge base, terminology and glossary database in wiki page structure.

- Use market insight and unstructured collaboration to fuel the product definition process and define groundbreaking product roadmaps.

- Engage with your colleagues in real time using conversations, audio and video calls.

Die **3D**EXPERIENCE® Plattform bildet die Grundlage unserer, in 11 Branchen eingesetzten, Anwendungen und bietet ein breites Spektrum an Branchenlösungen.

Dassault Systèmes, die **3D**EXPERIENCE® Company, stellt Unternehmen und Anwendern „virtuelle Universen" zur Verfügung und rückt somit nachhaltige Innovationen in greifbare Nähe. Die weltweit führenden Lösungen setzen neue Maßstäbe bei Konstruktion, Produktion und Service von Produkten. Die Lösungen zur Zusammenarbeit von Dassault Systèmes fördern soziale Innovation und erweitern die Möglichkeiten, mithilfe der virtuellen Welt das reale Leben zu verbessern. Die Gruppe schafft Mehrwert für mehr als 250.000 Kunden aller Größenordnungen, in sämtlichen Branchen, in über 140 Ländern. Weitere Informationen finden Sie unter **www.3ds.com/de**.

3DEXPERIENCE®

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