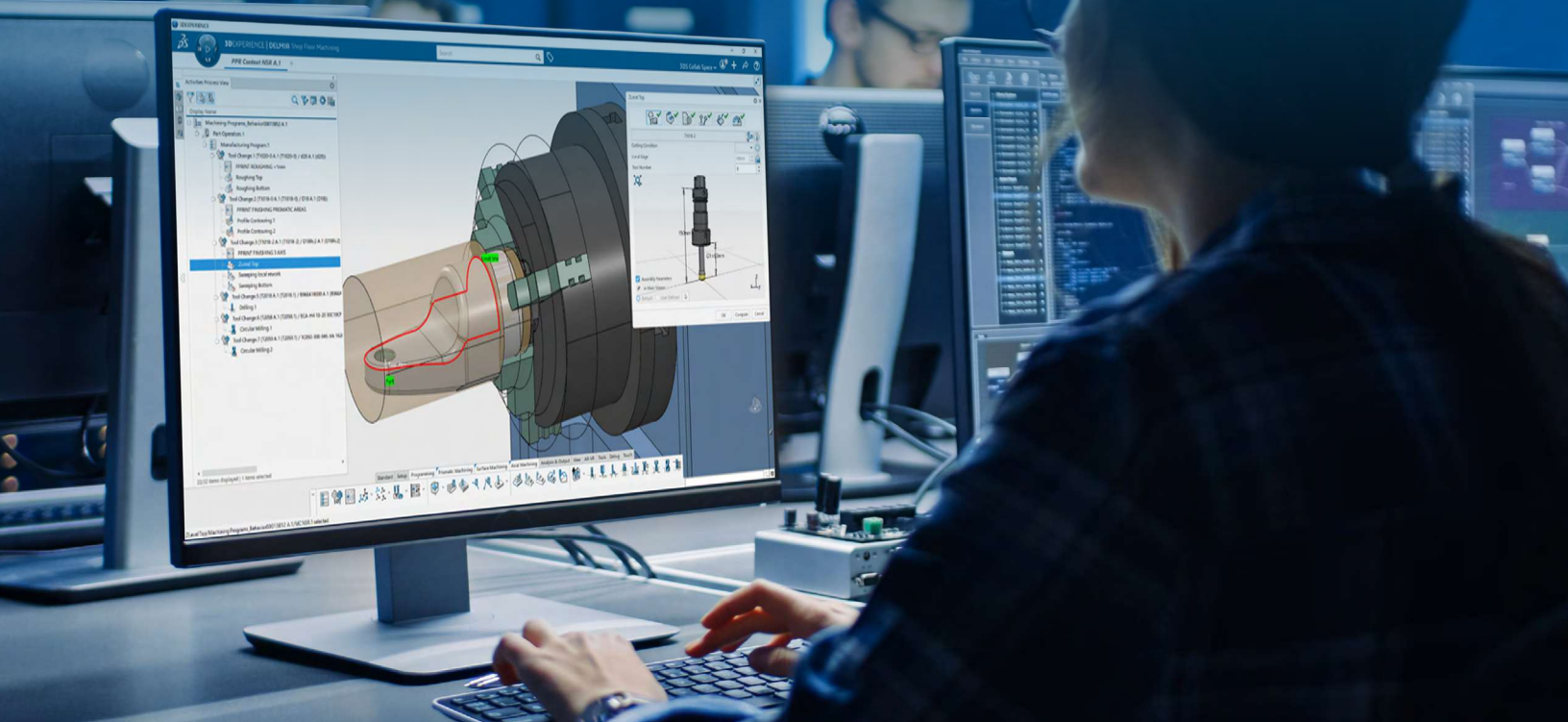# NC SHOP FLOOR PROGRAMMER

3DEXPERIENCE MANUFACTURING & PRODUCTION ROLE

CREATE 3D PARTS ON THE SHOP FLOOR

NC Shop Floor Programmer enables the milling machine programming of 3D parts for 2.5 and 3 axis operations. It features a simple and intuitive interface with a helpful wizard that makes it easy to master this solution. The **3D**EXPERIENCE Platform provides an immersive experience, empowering users to optimize milling programs with less programming time and faster design-to-production cycles, resulting in cost savings.

HIGH-END 3 AXIS STRATEGIES FROM ROUGHING TO FINISHING

Prismatic machining strategies support the efficient creation and validation of parts for 2.5 axis operations and probing cycles. High speed milling technology shortens machining time, while delivering higher surface quality. Collisions are detected and enables users to fix them at an early stage. This increased capacity to mitigate errors and reduce waste cuts cost, while significantly lowering production delays.

A SIMPLE INTERFACE AND SMART AUTOMATION

The simple UI and intuitive design make it easy to use *NC Shop Floor Programmer*, even for non-experts. Resource data management excels from having all machining resources (including cutting tools, assemblies, documentation and NC code) associative on one platform. High levels of automation save programming time, while templates and standardized processes reduce human errors and duplication of effort. Full associativity from design to production enables smooth change management, while communication errors are eliminated
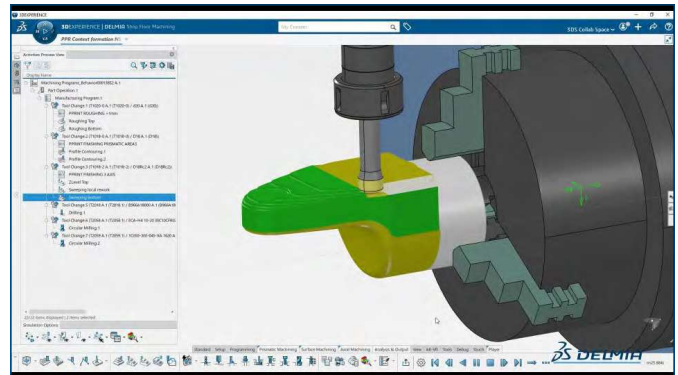
LIFE-LIKE SIMULATIONS REDUCE PRODUCTION RISK

Quality control is transformed as NC programs can be created and simulated in a virtual simulation environment. It's possible to program in the context of the machine and visualize the result. Early set-up validation mitigates errors and rework well in advance of the real world application. A host of scenarios are identified, such as near misses at user-defined safety distances, tool assembly validation or material removal based on toolpaths. With all of the data in one place, changes are made without having to log into multiple systems, reducing programming time.

HIGHLIGHTS

Native implementation associates multiple programs and data, while robust automation and a single IP platform drive efficient data management and valuable time savings.

- Subset of 2.5 axis milling operations
- Subset of 3 axis milling operations
- Axial cycles
- Probing cycles
- Dedicated Wire EDM app
- Feature recognition
- Multi-part programming
- Integrated machine simulation
- Full associativity with Design
- Real-time collaboration
- Shop floor documentation
- Work offline with 'On-The-Go'
- Seamless NC data generation
- Helpful wizard and help icons

A simplified new user interface with more intuitive graphic dialog boxes enables users to focus on the most important parameters and strategies

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

Dassault Systèmes, the **3D**EXPERIENCE 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 **3D**EXPERIENCE 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**.

3DEXPERIENCE®

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