

# ERGONOMICS SPECIALIST

## 3DEXPERIENCE MANUFACTURING & PRODUCTION ROLE



### ERGONOMICS ANALYSIS WITH A LIFELIKE MANIKIN EDITOR

Ergonomics Specialist creates lifelike manikins with standard anthropometry.

Ergonomics Specialist integrates ergonomics requirements early in the product and workplace design phase. Manikins can be placed into a 3D model for evaluation of human interactions and accommodation with a product or workplace. The 3DEXPERIENCE® platform makes a wide range of manipulation and analysis tools available for ergonomics assessment. This lowers the need for costly physical prototypes and helps to ensure that the complete targeted population is covered.

Human safety and performance can be analyzed and predicted using 3D. Whole body and segment postures can be examined, scored and iterated for ergonomic analysis of defined work within the context of a product or workplace design.

## Evaluate workplace and product designs with integration of human factors and ergonomics requirements

Users can easily place a lifelike manikin into a 3D model. Non-ergonomics users that are expert in product and workplace design can easily evaluate the way humans will interact with physical environments.

## Detect potential for work-related injuries early in the design process

Potential ergonomic issues can be found early in a product or workplace design phase. Design changes can be recommended when change is easier and the cost is lower. When issues are detected, users can seamlessly collaborate with other stakeholders to find the best solution.

## Capture and re-use ergonomic enterprise standards

Each manikin, including its attributes and skills, can be saved for use in future evaluation scenarios. This saves time and effort for downstream users while capturing company know-how.



Evaluate human accommodation as part of any design workflow



Create, manipulate and manage manikins while performing analyses

## Role Highlights

- Groundbreaking **3DEXPERIENCE** platform
- Realistic manikin creation
- Multiple manikin manipulation tools
- Evaluate the ergonomics of the 3D space
- Standard ergonomic analysis: Vision, Reach, Space, Posture
- Modify manikin stature and weight, gender and population (from 7 countries)
- Biomechanics analysis
- Push, pull, and carry analysis
- Lifting and lowering analysis
- Rapid upper limb assessment

## Our 3DEXPERIENCE Platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 190,000 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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