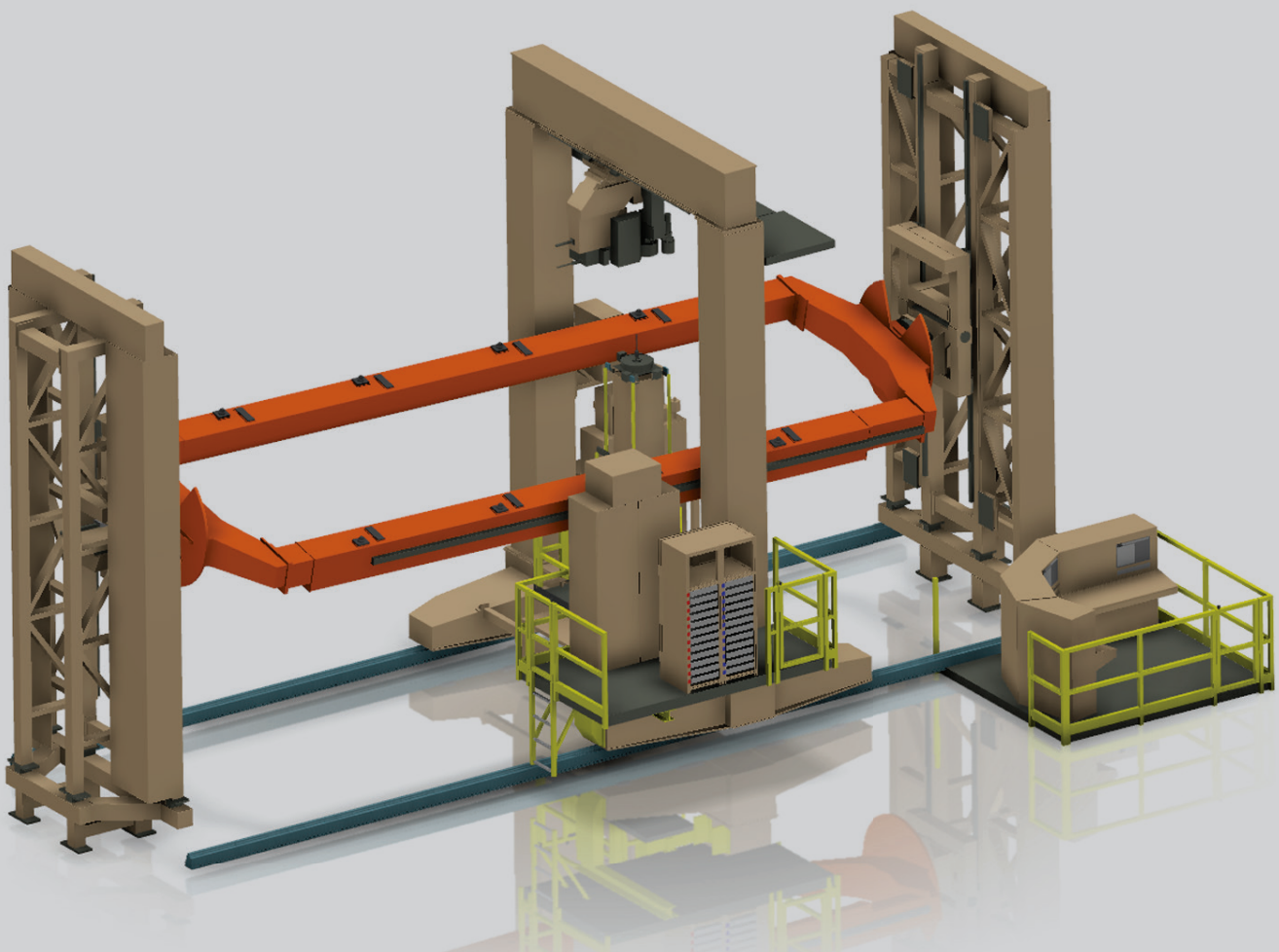


# SHOP FLOOR EQUIPMENT ENGINEER

## 3DEXPERIENCE MANUFACTURING & PRODUCTION ROLE



### CREATE VIRTUAL MODELS OF MANUFACTURING EQUIPMENT

Shop Floor Equipment Engineer creates virtual mechanical devices in 3D for downstream planning and simulation.

Shop Floor Equipment Engineer creates, enhances and validates all the mechanical devices used in a manufacturing setting, from simple clamps to NC machine tools and complex robots. Once a device model is validated, it can be saved to a resource catalog. Manufacturing plans can be defined, improved, and validated.

### Discover and resolve resource-related issues early

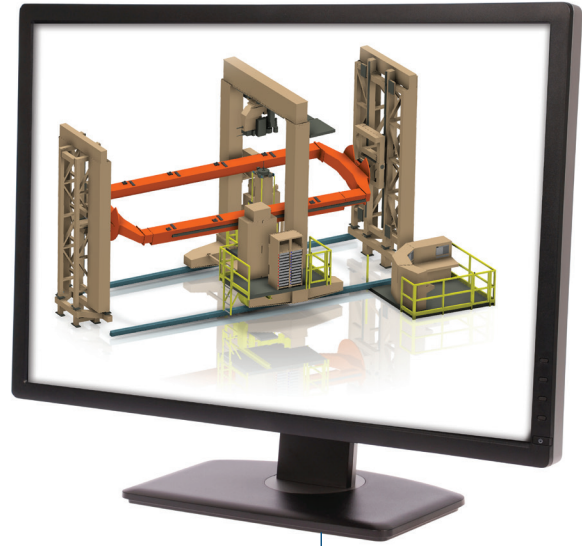
Engineers can discover issues such as interferences, travel limits, and inadequate reachability early in the design cycle. Users can define their tooling design in 3D. When an issue is discovered, the best resolution can be found through seamless collaboration with all stakeholders.

### Easily create any device type

Using the 3D interface, engineers can rapidly create a working kinematic device from an assembly of parts with a limited set of clicks and intuitive commands. The device can be validated through joint manipulation, simplifying the creation of NC machines, machine tools and custom robots for use by downstream stakeholders. Once a device is validated, it can be saved in a catalog for retrieval and reuse by other stakeholders.

### Collaborate seamlessly across the extended enterprise

Shop Floor Equipment Engineer provides complete collaboration and lifecycle management support. The **3DEXPERIENCE**® platform lets stakeholders share data seamlessly across the extended enterprise.



Discover and resolve resource-related issues



Create and validate kinematic models of manufacturing devices

### Role Highlights

- Groundbreaking **3DEXPERIENCE** platform
- Create and validate kinematic models of manufacturing devices
- Create mechanical joints
- Assign inverse kinematics to manufacturing devices
- Define home positions and joint travel limits
- Define motion controllers and manage motion groups
- Customize controller attributes through profiles
- Define the work envelope for robot devices

## 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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