Design Engineering, Architecture, and Manufacturing in the Modern Era.

In modern times, change is the only constant. The design engineering, architecture, and manufacturing industries are all seeing paradigm shifts in how products and structures are being developed and built.

Advances in simulation and analysis, digital twins and generative design are enabling new design paradigms. Augmented Reality (AR), Virtual Reality (VR), and Photo-Realistic visualization are enhancing design and collaboration. Integrated design, additive manufacturing and IoT technologies are driving ever increasing product complexities. Building Information Modelling (BIM) is driving better design and manageability of projects.

If you are producing or planning to produce interactive and new-dimensional content for these industries and the companies serving them, you should be prepared to look at your toolsets and review the way you work.

See the most common industry workflows below.
Engineering and Manufacturing Workflow

To compete in a world where products are moving from commoditization to personalization, today’s leading engineers and manufacturers need to streamline workflows using high performance workstations. The challenge is doing that effectively whilst incorporating new technologies such as IoT, reducing physical prototypes and enhancing collaboration.

See Dell solutions below:

**Product Design**
- Fixed
- Mobile

**Simulation and Analysis**
- Fixed
- Mobile

**Visualization**
- Fixed
- Mobile

**CONCEPT DESIGN**
- Quickly evaluate design options. Dassault Systèmes SolidWorks®, CATIA® Natural Sketch Autodesk AutoCAD® SketchBook® Pro PTC Creo® DEX, Creo® Sketch

**SYSTEMS DESIGN**
- Define major systems and how they work together. Autodesk Inventor®, Fusion™ Dassault Systèmes SolidWorks®, CATIA® PTC Creo® Siemens NX™

**INDUSTRIAL DESIGN**
- Define shape, look and feel, user interaction. Autodesk Alias® Studio Dassault Systèmes SolidWorks® Industrial Designer, CATIA® Industrial Design PTC Creo® Siemens NX™

**DETAILED DESIGN**
- Define design in full detail. Autodesk Inventor®, Fusion™ Dassault Systèmes SolidWorks® Dassault Systèmes CATIA® PTC Creo® Siemens NX™

**SIMULATION / ANALYSIS (CAE)**
- Evaluate performance to meet specifications. ANSYS® Mechanical™ ANSYS® Fluent® Autodesk Inventor®, Fusion™ Dassault Systèmes SolidWorks® Dassault Systèmes CATIA® PTC Creo® Siemens NX™

**VISUALIZATION**
- Simulate visual experience. Autodesk 3ds Max® Dassault Systèmes SolidWorks®, Visualize, 3DExcite, CATIA® PTC Creo® Render Studio Siemens NX™, TCVis

**MANUFACTURING (CAM)**
- CNC Machining, create tool paths / additive MFG. Autodesk HSMWorks, MasterCAM Dassault Systèmes DEMIA, SolidWorks®, CAM PTC Creo® Siemens NX™ CAM, SolidCAM Vero Software EDGECAM, SURFCAM
Precision 5820 Tower

Expand your ideas with the Precision 5820 Tower. Featuring high performance in an innovative, versatile compact design.

Dell Precision 5820 Tower workstation delivers scalable performance for 2D and 3D CAD applications, such as:

- Dassault Systèmes® – SolidWorks® and CATIA®, Autodesk Inventor®, Autodesk AutoCAD®, PTC Creo®, Siemens NX™

**Dell Precision Optimizer**

Click here to learn about dynamic custom performance tuning for Engineering and Manufacturing applications.

**ISV Certification**

Click here to learn about the performance and reliability benefits of ISV certification for Engineering and Manufacturing applications.

**Why Dell for Design, Simulation and Manufacturing?**

Use case: Columbia Sportwear

3Dconnexion SpaceMouse Pro

With an advanced ergonomic design and on-screen display, SpaceMouse Pro delivers superior comfort and a simpler, more productive workflow.

**Dell UltraSharp 27 4K Monitor – U2718Q (3840x2160)**

Ideal monitor for mainstream CAD providing great color quality and resolution for detailed 2D/3D modeling.

**Dell Premier Wireless Keyboard and Mouse – KM717**

Not only will it enhance productivity, but its elegant design will fit into virtually any workspace. For increased productivity, you can simultaneously pair up to two compatible devices with Bluetooth LE.

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Mobile Product Design

Precision 7540

Dell Precision 7540 workstation delivers scalable performance for 2D and 3D CAD applications, such as:
Dassault Systemes® – SolidWorks® CATIA®, Autodesk Inventor®, Autodesk AutoCAD®, PTC Creo®, Siemens NX®

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3Dconnexion SpaceMouse Wireless
This easy to carry wireless device, has a patented 6-Degrees-of-Freedom (6DoF) sensor that allows you to rotate, zoom and manipulate.

Dell Thunderbolt Dock – WD19TB
Experience ultimate productivity with the World’s most powerful Thunderbolt™ dock*. The WD19TB offers up to 150W of power delivery for faster charging when at your desk with Dell ExpressCharge.

*Based on Dell internal analysis of competitive products using publicly available data as of February 2019. Power Delivery of up to 130W when used with compatible Dell systems. ExpressCharge Boost is available on select Dell systems.
Fixed Simulation and Analysis (CAE)

The Dell Precision 7820 Tower workstation delivers scalable performance for CAE applications, such as:

- ANSYS® Mechanical™, Fluent®, Discovery™ Live, Altair® HyperWorks®, solidThinking®, COMSOL Multiphysics®

Dell Premier Wireless Keyboard and Mouse – KM717

Not only will it enhance productivity, but its elegant design will fit into virtually any workspace. For increased productivity you can simultaneously pair up to two compatible devices with Bluetooth LE.

Dell UltraSharp 32 Ultra HD 4K Monitor with PremierColor – UP3216Q – 3840 x 2160 at 60 Hz

Ideal monitor for mainstream CAD providing great color quality and resolution for detailed 2D/3D modeling.

Precision 7820 Tower

The power to grow. Push your ideas beyond boundaries with the Precision 7820 Tower. Featuring a dual-socket architecture for maximum performance in a compact design.

3Dconnexion SpaceMouse Wireless

This easy to carry wireless device has a patented 6-Degrees-of-Freedom (6DoF) sensor that allows you to rotate, zoom and manipulate.

Dell Premier Wireless Keyboard and Mouse – KM717

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Why Dell for Design, Simulation and Manufacturing?

Dell Precision Optimizer

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ISV Certification

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Engineering and Manufacturing
Mobile Simulation and Analysis (CAE)

The Dell Precision 7740 workstation delivers scalable performance for CAE applications, such as:
- ANSYS® Mechanical™, Fluent®, Discovery™ Live, Altair® HyperWorks®, solidThinking®, COMSOL Multiphysics®

**Dell Precision 7740**
Superior power. Slim design.
Dell’s most powerful* 17” mobile workstation is ideal if you’re working on-set or on-the-go on projects with large complexity. Redesigned to be thinner, lighter and Ready for VR. Featuring the latest 9th Gen Intel® Core™ and Xeon® 8-core processors.

**Dell UltraSharp 32 4K USB-C Monitor – U3219Q**
Ideal monitor for mainstream CAD providing great color quality and resolution for detailed 2D/3D modeling.

**Dell Performance Dock – WD19DC**
Boost your PC’s power up to 230W on the world’s most powerful dual USB-C dock*. Get the flexibility you need with magnetically separable USB-C cables.

**HTC Vive Pro™**
Review rendered architectural projects in virtual reality and allow clients to experience a realistic interpretation of the finished product.

**Dell Premier Wireless Keyboard and Mouse – KM717**
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**ISV Certification**
Click here to learn about the performance and reliability benefits of ISV certification for Engineering and Manufacturing applications.

**Why Dell for Design, Simulation and Manufacturing?**

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*When equipped with Intel® Xeon® E-2286M, 8-core Xeon, 32GB RAM, NVIDIA Quadro RTX 5000 graphics.
Based on Dell internal analysis, May 2019.

*Based on Dell internal analysis of competitive products using publically available data as of February 2019. Power Delivery of up to 130W when used with compatible Dell systems. Express Charge Boost is available on select Dell systems.
The Dell Precision 5820 Tower workstation delivers scalable performance for visualization applications, such as:

- Dassault Systèmes® SolidWorks® Visualize,
- 3DEXCITE, Autodesk® 3ds Max®, VRED
- Siemens PLM Teamcenter® Visualization

**Dell UltraSharp 32 8K Monitor – UP3218K – 7680 x 4320 at 60 Hz**
A large format monitor with high resolution and color quality ideal for visualization.

**Dell Premier Wireless Keyboard and Mouse – KM717**
Not only will it enhance productivity, but its elegant design will fit into virtually any workspace. For increased productivity you can simultaneously pair up to two compatible devices with Bluetooth LE.

**HTC Vive Pro™**
Review rendered architectural projects in virtual reality and allow clients to experience a realistic interpretation of the finished product.

**X-Rite Colorimeter i1Display Pro**
Ensure a perfectly calibrated and profiled display to your client’s color palette while delivering the speed, options and flexibility needed to maintain color accuracy.

**3Dconnexion SpaceMouse Pro**
With an advanced ergonomic design and on-screen display, SpaceMouse Pro delivers superior comfort and a simpler, more productive workflow.

**X-Rite Colorimeter i1Display Pro**
Ensure a perfectly calibrated and profiled display to your client’s color palette while delivering the speed, options and flexibility needed to maintain color accuracy.

**3Dconnexion SpaceMouse Pro**
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**Fixed Visualization**

**Precision 5820 Tower**
Expand your ideas with the Precision 5820 Tower. Featuring high performance in an innovative, versatile compact design.
Mobile Visualization

Precision 7740

The Dell Precision 7740 workstation delivers scalable performance for visualization applications, such as:

- Dassault Systèmes® SolidWorks® Visualize, 3DEXCITE, Autodesk® 3ds Max®, VRED, Autodesk® 3ds Max®, VRED Siemens PLM Teamcenter® Visualization

Dell Precision Optimizer

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ISV Certification

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Why Dell for Design, Simulation and Manufacturing?

Dell Premier Wireless Keyboard and Mouse – KM717

Not only will it enhance productivity, but its elegant design will fit into virtually any workspace. For increased productivity you can simultaneously pair up to two compatible devices with Bluetooth LE.

Dell Ultrasharp 32 Ultra HD 4K Monitor with PremierColor – UP3216Q (3840x2160)

A large format monitor with high resolution and color quality ideal for visualization.

Dell Performance Dock – WD19DC

Boost your PC’s power up to 240W on the World’s most powerful dual USB-C dock*. Get the flexibility you need with magnetically separable USB-C cables.

3Dconnexion SpaceMouse Pro

With an advanced ergonomic design and on-screen display, SpaceMouse Pro delivers superior comfort and a simpler, more productive workflow.

HTC Vive Pro™

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*Based on Dell internal analysis of competitive products using publicly available data as of February 2019. Power Delivery of up to 130W when used with compatible Dell systems. ExpressCharge Boost is available on select Dell systems.

Dell Ultrasharp 32 Ultra HD 4K Monitor with PremierColor – UP3216Q (3840x2160)

A large format monitor with high resolution and color quality ideal for visualization.

*Based on Dell internal analysis of competitive products using publicly available data as of February 2019. Power Delivery of up to 130W when used with compatible Dell systems. ExpressCharge Boost is available on select Dell systems.

Precision 7740

Superior power. Slim design. Dell’s most powerful* 17" mobile workstation is ideal if you’re working on-set or on-the-go on projects with large complexity. Redesigned to be thinner, lighter and Ready for VR. Featuring the latest 9th Gen Intel® Core™ and Xeon® 8-core processors.

*Dell’s most powerful mobile workstation when equipped with Intel® Xeon® E-2286M, 8-core Xeon, 128 GB RAM, NVIDIA Quadro RTX 5000 graphics.

Based on Dell internal analysis, May 2019.

**When equipped with Intel® Xeon® E-2286M, 8-core Xeon, 128 GB RAM, NVIDIA Quadro RTX5000 graphics.
Today’s AEC professionals have to wear multiple hats. They need to be able to design and visualize to meet customer needs, become greener, and quickly drive critical business decisions. The challenge is finding the appropriate workstations that support their need for photo-realistic rendering and AR/VR technology, and drive more efficient performance and collaboration.

See Dell solutions below:

<table>
<thead>
<tr>
<th>Concept Design</th>
<th>Visualization / Presentation</th>
<th>Architectural Design</th>
<th>Analysis - Structural, Lighting</th>
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<tr>
<td>Quickly evaluate design options and massing studies.</td>
<td>Simulate, share and collaborate visual appearance and ideas.</td>
<td>Define appearance - shape, look and feel.</td>
<td>Analyze structural performance to meet specifications.</td>
</tr>
<tr>
<td>Trimble®, Sketchup, Autodesk SketchBook®, Pro, Formit, 360 Pro, Adobe Illustrator, Grasshopper, Bentley AECOsim</td>
<td>Autodesk 3ds Max®, Revit Live, NavisWorks®, Epic Games, Unreal Engine, Unity 3D, Chaos Vray</td>
<td>Autodesk Revit, GRAPHSOFT ARCHICAD, Bentley Microstation, Robert McNeel &amp; Associates Rhino®</td>
<td>Autodesk Revit Structure, Advance Steel, Tekla Structural Designer, Bentley Microstation, STAAD.Pro, RAM Steel</td>
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<tr>
<th>Mechanical / Electrical Plumbing (MEP) Systems</th>
<th>Documentation</th>
<th>Construction Planning</th>
<th>Building Construction</th>
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<tr>
<td>Evaluate performance to meet specifications.</td>
<td>Document to pass on the Construction.</td>
<td>Plan and coordinate building process.</td>
<td>CNC Machining, create tool paths / additive MFG.</td>
</tr>
<tr>
<td>Autodesk Revit MEP, AutoCAD, MEP, NavisWorks®, Trimble®, PipeDesigner, DuctDesigner</td>
<td>Autodesk AutoCAD®, GRAPHSOFT ARCHICAD, Bentley Microstation</td>
<td>Autodesk NavisWorks</td>
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</table>
Fixed Architectural Design

Precision 3630 Tower

The Dell Precision 3630 Tower workstation saves space and features ISV certification for architectural applications such as:

- Autodesk Revit®, AutoCAD®, GRAPHISOFT® ARCHICAD, Bentley Software MICROSTATION, Robert McNeel & Associates Rhino®

Precision 3630
For when you're working on projects with large complexity, local and offline rendering and complex visual effects.

---

Dell UltraSharp 27 4K Monitor – U2718Q (3840x2160)
Ideal monitor for mainstream CAD, providing great color quality and resolution for detailed 2D/3D modeling.

Sonnet eGFX Breakaway Box 550 – US Only
Increase graphics performance to application performance to increase rendering speeds, connect to 8K or 4K HDR monitors, or connect to a HTC Vive for virtual reality applications.

Jabra Evolve 75
The best wireless headset that allows you to stay focused on your project with ambient noise cancellation, collaborate using world-class speakers and HD voice and pair to multiple devices using Dual Bluetooth connectivity.

Dell Premier Wireless Keyboard and Mouse – KM717
Not only will it enhance productivity, but its elegant design will fit into virtually any workspace. For increased productivity, you can simultaneously pair up to two compatible devices with Bluetooth LE.

X-Rite Colorimeter i1Display Pro
Ensure a perfectly calibrated and profiled display to your client's color palette while delivering the speed, options and flexibility needed to maintain color accuracy.

HTC Vive Pro™
Review rendered architectural projects in virtual reality and allow clients to experience a realistic interpretation of the finished product.

Dell Precision Optimizer
Click here to learn about dynamic custom performance tuning for AEC applications.

ISV Certification
Click here to learn about the performance and reliability benefits of ISV certification for AEC applications.

Why Dell for Design, Simulation and Manufacturing for AEC?
Mobile Architectural Design

Precision 7540

The Dell Precision 7540 workstation delivers power with mobility and features ISV certification for architectural applications such as:
Autodesk Revit®, AutoCAD® GRAPHISOFT® ARCHICAD, Bentley Software, MICROSTATION, Robert McNeel & Associates Rhino®

Dell Precision Optimizer
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ISV Certification
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Why Dell for Design, Simulation and Manufacturing for AEC?

Dell Performance Dock – WD19DC
Boost your PC’s power up to 210W on the World’s most powerful dual USB-C dock*. Get the flexibility you need with magnetically separable USB-C cables.

* Based on Dell internal analysis of competitive products using publicly available data as of February 2019. Power Delivery of up to 210W when used with compatible Dell systems.

Precision 7540
Slim design. Extraordinary power. Dell’s most powerful 15” mobile workstation. Redesigned to be thinner, lighter and Ready for VR. Featuring the latest Intel® 9th Gen Core™ and Xeon® 8-core processors.

X-Rite Colorimeter i1Display Pro
Ensure a perfectly calibrated and profiled display to your client’s color palette while delivering the speed, options and flexibility needed to maintain color accuracy.

Dell UltraSharp 27 4K Monitor – U2718Q (3840x2160)
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Sonnet eGFX Breakaway Box 550 – US Only
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Sonnet XLR Breakaway Box 600

Jabra Evolve 75
The best wireless headset that allows you to stay focused on your project with ambient noise cancellation, collaborate using world-class speakers and HD voice and pair to multiple devices using Dual Bluetooth® connectivity.

HTC Vive Pro™

Dell UltraSharp 27 4K Monitor – U2718Q (3840x2160)

Jabra Evolve 75

HTC Vive Pro™

The Dell Precision 5820 Tower workstation delivers performance and reliability for MEP and HVAC applications, such as: Autodesk® Revit® MEP, AutoCAD® MEP, Navisworks®, Trimble®, PipeDesigner™, DuctDesigner™, and a 4K Display.

Dell UltraSharp 27 4K Monitor – U2718Q (3840x2160)
Ideal monitor for mainstream CAD providing great color quality and resolution for detailed 2D/3D modeling.

Jabra Evolve 75
The best wireless headset that allows you to stay focused on your project with ambient noise cancellation, collaborate using world-class speakers and HD voice and pair to multiple devices using Dual Bluetooth® connectivity.

Dell Premier Wireless Keyboard and Mouse – KM717
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3Dconnexion SpaceMouse Wireless
This easy to carry wireless device, has a patented 6-Degrees-of-Freedom (6DoF) sensor that allows you to rotate, zoom and manipulate.
Mobile MEP

Precision 7540

The Dell Precision 7540 workstation delivers performance and reliability for MEP and HVAC applications, such as:

Autodesk® Revit®, AutoCAD MEP®, Navisworks®, Trimble®, PipeDesigner®, DuctDesigner®, and a 4K Display.

Dell UltraSharp 32 4K USB-C Monitor – U3219Q (3840x2160)

Ideal monitor for mainstream CAD providing great color quality and resolution for detailed 2D/3D modeling.

Jabra Evolve 75

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Dell Performance Dock – WD19DC

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3Dconnexion SpaceMouse Wireless

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Dell Precision Optimizer

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ISV Certification

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Why Dell for Design, Simulation and Manufacturing for AEC?
The Dell Precision 5820 Tower workstation delivers scalable performance and reliability for structural engineering applications, such as:

AutoCAD® Revit® Structure, Advance Steel, Tekla® Structural Designer, Bentley Software MICROSTATION, STAAD.Pro, RAM® Steel.

**Precision 5820 Tower**

Perfected to your vision. Expand your ideas with the Precision 5820 Tower. Featuring high performance in an innovative, versatile compact design.

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**3Dconnexion SpaceMouse Pro**

With an advanced ergonomic design and on-screen display, SpaceMouse Pro delivers superior comfort and a simpler, more productive workflow.

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Dell Performance Dock – WD19DC
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† Based on Dell internal analysis of competitive products using publicly available data as of February 2019. Power Delivery of up to 210W when used with compatible Dell systems.

When equipped with Intel® Xeon E-2186M processor, 64 GB of DDR4 3200MHz memory capacity, NVIDIA Quadro P5200 (16GB) graphics. Based on Dell internal analysis of competitive workstation products as of March 2018.
The Dell Precision 7920 Tower workstation delivers scalable performance for visualization applications, such as:

- Dassault Systèmes® SolidWorks® Visualize,
- 3DEXCITE, Autodesk® 3ds Max®, VRED,
- Siemens PLM Teamcenter® Visualization.

**Dell Ultrasharp 32 Ultra HD 4K Monitor with PremierColor – UP3216Q (3840x2160)**
A large format monitor with high resolution and color quality ideal for visualization.

**Dell Premier Wireless Keyboard and Mouse – KM717**
Enhance productivity and enjoy its elegant design that will fit into virtually any workspace. For increased productivity you can simultaneously pair up to two compatible devices with Bluetooth LE.

**X-Rite Colorimeter i1Display Pro**
Ensure a perfectly calibrated and profiled display to your client’s color palette while delivering the speed, options and flexibility needed to maintain color accuracy.

**HTC Vive Pro™**
Review rendered architectural projects in virtual reality and allow clients to experience a realistic interpretation of the finished product.

**Precision 7920 Tower**
Max performance. Superior scalability. The world’s most powerful workstation, the Precision 7920 Tower provides ultimate performance and scalability to grow alongside your vision.
The Dell Precision 7740 Tower workstation delivers scalable performance for visualization applications, such as:

- Dassault Systèmes® SolidWorks® Visualize
- 3DEXCITE
- Autodesk® 3ds Max®, VRED
- Siemens PLM Teamcenter® Visualization

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Based on Dell internal analysis, May 2019.

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