Virtual and Augmented Reality Workflows

Dell Precision Workstation

Start Discovering
Virtual and Augmented Reality – Making it Real

In this new world of smarter working, computers aren’t just sitting on your desk or in your hand, they’re all around you. Thoughtfully designed to make you more productive and your life easier. Letting you engage in more immersive ways. Inspiring you to collaborate more naturally. Even predicting things you need, before you know you need them. And both Virtual Reality and Augmented Reality are parts of the story of changing usage patterns that increase productivity.

The movie “Ready Player One” increased people’s desire to interact with AR & VR technology and with a growing number of VR startups working across multiple industry sectors, the VR ecosystem is thriving. In fact, IDC forecasts the headset market to grow to 65.9 million by 2022. The good news for those businesses entering the marketplace is that Dell makes it easier for them to deploy VR and experiential visualization strategically in production environments. We do this by de-risking the process through a unique combination of VR-ready product engineering architectures and ISV and software extension certification. If you work or plan to operate across the below industries (or companies serving them), you’ll need to look more closely at your toolsets.

See the potential for applications of AR/VR we witness today.

Healthcare & Life Sciences
Energy
Finance
Media & Entertainment
Engineering & Manufacturing / Architecture & Construction
Healthcare in the Modern Era

Technologies such as AR, VR and AI have revolutionized how patient data is recorded, meaning the clipboards on beds and doctors’ rounds are now things of the past. Using powerful workstations, information is now viewed on high-definition screens and acted upon in minutes for greater patient care. There can be no doubt that technology plays an important role in advancing the goals of healthcare organizations and their systems, as well as ensuring patient safety. So, if you are working in or planning to operate in healthcare or companies serving it, you will have to be prepared to look at your toolsets.

See the most common industry workflows below.
Overcome those challenges with Dell’s solutions below:

**Research / Academic Medical Center Applications**

Clinical research and medical training have changed considerably in the last few decades. Thanks to technological developments in imaging, virtualization, AR, VR, artificial intelligence (AI), and more, clinical research and medical training is more streamlined than ever before. At the same time, these technologies are creating a more affordable, more effective, and more standardized research environment. As a worldwide leader in Healthcare and Life Sciences IT solutions, Dell offers workstations with the computational power to analyze and act on large research data sets and the screen resolution to view trials and research content in the greatest possible detail for fast and effective outcomes.

**Challenges:**

1. Trying to simulate an operating room environment and surgical tasks.
2. Discrepancies in hardware and software requirements arising due to different application fields.
3. Different researchers emphasizing different models of research utilization.

**Overcome those challenges with Dell’s solutions below:**

- **3D Medical Labs**
- **Medical Teaching in 3D**
- **Gene Sequencing in VR**
3D Medical Labs
Precision 3640 Tower

The human body is a 3D structure, so it makes sense to be able to create 3D models in intricate detail that allows clinicians to dissect right through the body, without having to be in the lab. Dell’s Precision workstations provide the capability for medical labs to load data into a 3D environment to see and interact with all of it simultaneously.

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

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

Why Dell for AR/VR?
Find Out More

Project Bravemind: Use Case
Find Out More

Anatomic Eyes: Use Case
Find Out More

Small but mighty VR creation
Harness the power of workstation performance, VR content creation and reliability in an affordable, smaller yet expandable tower design. Featuring the latest Intel® Xeon® processors.

Ready for VR
Prepare yourself for impressive VR in the surprisingly affordable Precision 3640 Tower. Next generation AMD Radeon™ Pro and NVIDIA® Quadro™ professional graphics with up to 225W of graphics support handles VR content creation with workstation-class performance you can count on.

Research / Academic Medical Center Applications ›
Being able to use VR and 3D modeling is now not only helping to achieve greater knowledge retention for medical learners, but is also better preparing medical students to address life and death situations. Dell’s Precision 7750 workstations allow users to convert existing didactic modules into interactive virtual reality modules to increase immersion, engagement and retention and reduce the cost of training.

**Dell Optimizer for Precision**
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**ISV certification**
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**Why Dell for AR/VR?**
Find Out More

**Project Bravemind: Use Case**
Find Out More

**EON Reality: Use Case**
Find Out More

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**Superior power. Slim design.**
Our highest performance mobile workstations boast 15" and 17" displays. Featuring the latest Intel® Core™ i9 and Xeon® processors, the 7550/7750 are optimised for your AI and VR workloads.

- CPU: Dual Intel® i7, i9, Xeon®
- Memory: 32/128GB 2933MHz Super Speed
- Graphics: NVIDIA® RTX™ 5000
- Storage: 1TB NVMe, SSD

**Redefine reality**
Create fully-immersive AR and VR content with next generation NVIDIA® Quadro® professional graphics and powerful performance normally found only in tower workstations.

**Dell UltraSharp 27 4K Monitor | U2718Q**
The world’s first 27” 4K monitor with InfinityEdge. See stunning colors and pixel perfect details on a virtually borderless display.

**Dell Performance Dock | WD19DC**
Incredibly powerful Thunderbolt dock delivering up to 210W. Leave your power brick at home and plug in one cable for both data and power for your Precision 7550/7750 workstation.

**HTC Vive Pro Eye™**
Immersion equates to better information retention, and therefore better teaching. Record your lesson in VR and export it as a fully immersive Virtual Reality lesson, a 360° movie or a normal movie.

**Dell Wireless Premium Keyboard and Mouse Combo | KM717**
Keep your desk clutter-free with a modern wireless keyboard and mouse combo with scissor chiclet keys and LED tracking.

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Research / Academic Medical Center Applications ›
Gene Sequencing in VR
Precision 7920 Tower

With genome sequencing, researchers have a critical gateway to understanding the underlying molecular pathways for disease. And for some diseases, every hour closer to discovery and results can mean the difference between life and death. Genomic processing requires immense computational power and storage. Dell’s Precision 7920 Tower enables clinicians to work with larger amounts of data, create more realistic models and determine better treatment paths for individuals.

Max performance. Superior scalability.
The world’s most powerful workstation, the new Precision 7920 Tower provides ultimate performance and scalability to grow alongside your vision.
- CPU: Dual Intel® Xeon® Platinum
- Memory: 128GB 2933MHz
- Graphics: NVIDIA® Quadro RTX™ 6000
- Storage: 1TB NVMe, 1.2TB SAS

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In fact, integrating VR into gene sequencing workflows is so transformative, it can speed up processes that previously took months on end and turn them into 5 minute jobs.

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HTC Vive Pro Eye™
Immersion equals better information retention, and therefore better learning and productivity, critical for gene sequencing. Integrating VR into this workflow allows users to combine gene expression, gene pathways, proteins, and cell action data on the fly within minutes.

In fact, integrating VR into gene sequencing workflows is so transformative, it can speed up processes that previously took months on end and turn them into 5 minute jobs.

Dell UltraSharp Ultra HD 4K Monitor with PremierColor | U3219Q
The perfect display for ideal color coverage and incredible clarity on color-critical projects.

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

Find Out More

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

Find Out More

Why Dell for AR/VR?
Find Out More

Project Bravemind: Use Case
Find Out More

Enduvo: Use Case
Find Out More

Research / Academic Medical Center Applications ›
Overcome those challenges with Dell’s solutions below:

**Virtual Reality/Augmented Reality, Artificial Intelligence/Machine Learning Applications**

Our world is becoming more immersive with the rise of technologies such as AI, ML, AR, VR and IoT. AI uses sophisticated algorithms to ‘learn’ features from a large volume of healthcare data, then use the insights to assist clinical practice. In fact, oncology researchers are currently using deep learning (DL) algorithms to recognize cancerous tissue at a level comparable to trained physicians. Dell Precision workstations deliver the power to deploy and manage cognitive technology platforms, including AI, and its sub-sets machine learning (ML) and deep learning (DL). We collaborate with a select group of industry partners to deliver versatile cognitive technology workstation configurations, so every machine exceeds expectation. It’s a cost-effective solution that puts these advanced technologies within reach.

**Challenges:**

1. Algorithm opacity.
2. Patient privacy and data security.

**Overcome those challenges with Dell’s solutions below:**

- **Surgery Planning in AR**
- **Surgery Rehearsal in VR**
Safe surgery saves lives. And the ability to create a surgical simulation in pin-sharp 3D imaging and navigate around the virtual body can help de-risk a procedure long before the first incision is made. Dell’s Precision 3640 Tower and high-resolution screens can really help to bring ideas to life and make surgery safer.

**Surgery Planning in AR**

**Precision 3640 Tower**

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**Dell Optimizer for Precision**

Click here to learn about dynamic custom performance tuning for Healthcare applications.

**ISV certification**

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

**Why Dell for AR/VR?**

Click here to learn more.

**Enduvo: Use Case**

Click here to find out more.

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**Microsoft HoloLens 2**

Live MRI data can be exported into augmented reality via Render-X and allow you to see inside a patient and plan your surgery in advance.

**Dell 27 Touch Monitor | U2718Q**

Bring your ideas to life with a new 27” workspace that empowers precise digital surgery preparation. Featuring an innovative pen and totem, U2718Q features intuitive, responsive touch capabilities designed to improve your workflow.

**Ergotron 24-189-055 Neo-Flex WideView WorkSpace Cart**

Widen your view and move it too. Configure this compact, height-adjustable computer cart to your needs. Flexible open architecture supports a wide range of displays and a fleet of accessories.

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

Enjoy an elegant design that fits into virtually any workspace.

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**Dell 27 Touch Monitor | U2718Q**

Click here for more information on Dell touch displays and surgery planning.

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**Microsoft HoloLens 2**

Click here for more information on using Render-X and Augmented Reality for surgery planning.
To prepare for surgery, doctors are now using virtual reality to allow patients to preview their own procedure – providing them with greater peace of mind. Not only that, but the technology also enables surgeons to improve their approach to the procedure using a 3D model of the body. Dell’s Precision 7550 and 7750 workstations allow surgeons to create fully-immersive AR and VR content for more precise planning and safer outcomes.

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

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

**Why Dell for AR/VR?**
Find Out More

**Medicalholodeck: Use Case**
Find Out More

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- Memory: 32/128GB 2933MHz Super Speed
- Graphics: NVIDIA® RTX™ 5000
- Storage: 1TB NVMe, SSD

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**HTC Vive Pro Eye™**
Use virtual reality with ImmersiveView to practice complex surgeries in advance in a safe, repeatable environment.

**Dell Premier Wireless Keyboard and Mouse Combo | KM717**
Keep your desk clutter-free with a modern wireless keyboard and mouse combo with scissor chiclet keys and LED tracking.

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**Virtual Reality / Augmented Reality, Artificial Intelligence / Machine Learning Applications ›**
With renewable energy taking center stage, geologists are exploring new ways of making effective and compliant use of diminishing natural energy. This research demands rapid data workflows, 3D mapping and VR imaging, and Energy companies need powerful and portable workstations that deliver crystal-clear imaging with the strength to withstand the rigors of onsite working.

**See the most common industry workflows below.**
Interpretations Workflow

As a geologist/geophysicist, your work requires you to go beyond traditional tasks and perform advanced workflows. As part of a robust and integrated 3D geological interpretation solution. This enables you to capture best practices and share them across your organization. Dell Precision workstations provide the latest industry enhancements, increasing performance and productivity by accelerating access to complex and large workflows.

See Dell solutions below:

Fixed  |  Find Out More  |  Mobile  |  Find Out More

- **HALLIBURTON/LANDMARK**
  - Challenges
    - Incorporating new technologies such AR/VR/AI to enhance workflows

- **SCHLUMBERGER**
  - Challenges
    - Accelerating time to market for new/legacy applications and products

- **IHS MARKIT**
  - Challenges
    - Transforming legacy infrastructure to modern platforms for lower TCO and greater business agility
Max performance. Superior scalability.
The new Precision 7920 Tower provides ultimate performance and scalability to grow alongside your vision.

- CPU: Dual Intel® Xeon® Platinum
- Memory: 128GB 2933MHz
- Storage: 2 X 1TB NVMe Class 50
- Graphics: NVIDIA® RTX™ 5000/6000/8000
- VR/AR Headset

Interpretations Workflow ›

Interpretations Fixed Solution
Precision 7920 Tower

Dell Precision workstations provide extreme performance, enabling high-end graphic visualization, interpretation and simulation for modeling and analysis.

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

Find Out More

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

Find Out More

Why Dell for AR/VR?
Click here to learn more about the value of AR/VR applications for Energy clients.

Find Out More

Adapts to your innovations.
Your Precision 7920 Tower is ready for complex projects, including virtual reality workflows, with the next generation AMD Radeon Pro™ and highest-performing NVIDIA® Quadro® graphics.
Interpretations Mobile Solution

Precision 7750

Dell Precision workstations provide the extreme performance to enable high-end graphic visualization, interpretation and simulation for modeling and analysis.

Dell UltraSharp 49 Curved Monitor | U4919DW
A revolutionary 49" dual QHD curved monitor with ultra-wide views, multitasking features and seamless connectivity for an immersive work experience.

Dell Wireless Premium Keyboard and Mouse Combo | KM717
Keep your desk clutter-free with a modern wireless keyboard and mouse combo with scissor chiclet keys and LED tracking.

HTC Vive Pro Eye™
Use virtual reality to train employees and collaborate on predictive data analytics.

Our most powerful 17" mobile workstation is VR and AI ready.
The newly designed 17" mobile workstation is also small enough to fit inside the previous generation, yet brings even more performance with the latest Intel® Core™ or Xeon® processors, up to NVIDIA® Quadro RTX™ 5000 graphics, scalable and fast storage (8TB) and memory (128GB, 2933MHz) options and an advanced thermal design to keep the system cool while running the most intensive applications.

• CPU: Intel® 6/8 Core™ i7, i9, Xeon®
• Memory: 32/128GB 2933MHz
• Storage: 2 X 1TB NVMe Class 50
• Graphics: NVIDIA® RTX™ 5000
• VR/AR Headset

Redefine reality and create fully-immersive AR and VR content with next-generation NVIDIA® Quadro™ professional graphics and powerful performance normally found only in tower workstations.

Why Dell for AR/VR?

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

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

Find Out More

Find Out More

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Find Out More

Dell Professional Dock | WD19DC
Dell’s most powerful dock* delivers the ultimate productivity experience. Charge your system faster: support up to four 4K displays and connect to your peripherals via a single cable with dual USB-C connectors for up to 230W of power delivery.

*When used with Dell systems with Type-C. Based on Dell internal analysis of competitive products using publicly available data as of February 2019.
Modern trading and finance doesn't keep regular office hours, nor regular places of business. Beyond the demand for fast transactions, the trading floor – wherever it resides – has an insatiable hunger for information and market data. Multiple computer connections, diverse display models, voice, data access and demand for convergence at every trading desk are now the norm.

If you are working or planning to operate across this industry, or the companies serving it, you'll need to look more closely at your toolsets.

See the most common industry workflows below.
Financial Analysis

As part of a financial advisory firm, you are under enormous pressure to enhance not only your front office with new digital technology, but to transform business and operating models as well. Finance is not just about number crunching anymore. Social finance, AI-enabled finance, and instant finance are just among the latest trends to shake up the industry. Dell Precision workstations power trading floors, financial analysis and banking through close partnerships with financial institutions and ISVs.

Challenges:

1. Need for reliability, performance, and connectivity for multiple high resolution monitors on the trading floor.
2. Incorporation of AR/VR and AI to enhance analysis, as well as big data analytics.

Overcome those challenges with Dell’s solutions below:

Financial Analyst VR Solution
Financial Analyst Workflow
Precision 3640 Tower

Analyzing from current and past financial data analytics and performance. Preparing reports and projections based on this analysis. Coordinating with other members of the finance team to review financial information and forecasts. Providing financial models and forecasting. This reliable workhorse gives you all of this functionality and more.

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

Dell Monitors
Click here to learn more about how the world’s #1 monitor provider enables you to identify more trends and make better trades.

Why Dell for AR/VR?
Find Out More

Investment Services Use Case
Find Out More

HTC Vive Pro Eye™
Use virtual reality to train employees and collaborate on predictive/bid data analytics.

Dell Premier Wireless Keyboard and Mouse | KM717
Enjoy an elegant design that fits into virtually any workspace.

Ready for VR.
Prepare yourself for impressive VR in the surprisingly affordable Precision 3640 Tower. Next generation AMD Radeon™ Pro and NVIDIA® RTX™ professional graphics handles VR content creation with workstation-class performance you can count on.

Small but mighty.
Harness the power of workstation performance, content creation and reliability in an affordable, smaller, yet expandable tower design.

Financial Analyst Monitor Setup:
4x Dell UltraSharp 27 4K Monitor | U2718Q
The world’s first 27” 4K monitor with InfinityEdge. See stunning colors and pixel perfect details on a virtually borderless display.
What you see is what they get

In a world where content is king and the discerning audience demands an end product that’s more vivid and interactive, what is envisaged in the mind of the creator must transfer onto the screen. Over the Top streaming (OTT), Virtual Reality (VR), and High Dynamic Range imaging (HDR) are all transforming how people consume content, with the Media & Entertainment industry seeing new pipelines being driven by these technological innovations.

To keep pace, the creatives in your studio will need complimentary hardware at their fingertips that delivers the computation power and rock-solid reliability necessary to produce content across these modern media.

Where does your adventure begin?

Movies & Television

Find Out More

Visual Effects

Find Out More

Animated Features & Game Development

Find Out More
Movies & Television Workflow

Whether for the big screen or small screen, post-production workflows need to be crisp, clear and cutting-edge. That means media capture, editorial development, VFX and compositing, color grading and finishing, and publishing final finished media. Dell helps you push the envelope of innovation by dynamically fine-tuning your workstation to your preferred applications at the fastest possible speeds. And with ISV certification, you can rest assured you’ll have performance and reliability.

Challenges:
1. Content creation standards are being driven to even higher resolution (8K).
2. Trends such as OTT, virtual production and HDR are creating all new pipelines.
3. Your studio has to rapidly expand and contract to accommodate spike projects.
4. An inability to call on high-power and fit-for-purpose infrastructure leads to costly outsourcing.
5. Trying to stay ahead of the competition means that your studio may need to open new facilities, close, or merge existing ones.

How we’re turning challenges into opportunities:

Ultimate  Find Out More  Mobile  Find Out More
Precision workstations can dramatically improve real-time and offline rendering, using dedicated professional graphics card(s). With high-speed, multi-core CPUs like those found in Precision tower or rack workstations, it’s time to make the switch. More reason to switch is they can come preinstalled with Linux, meaning you benefit from the power to design at a greater pace, configure images in minutes and transfer large and time-sensitive files with confidence.

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

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

**Why Dell for AR/VR?**
Find Out More

**Important Looking Pirates: Use Case**
Find Out More

**Framestore: Use Case**
Find Out More

**Sherpa Digital Media: Use Case**
Find Out More

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**Dell UltraSharp 27 4K HDR Monitor | UP3218Q**
Review your video in HDR10 with Dell’s first 27” 4K HDR monitor. Dell PremierColor on this monitor offers everything you need to tackle color-critical jobs – wide color coverage, incredible color depth, accurate color and customizable color parameters.

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**HTC Vive Pro Eye™**
Enhance your production workflow with a virtual environment. Replace physical monitors with virtual ones, and get closer to your timeline work than ever before.

**Jabra Evolve 75**
This wireless headset lets you get up to stretch without being tethered. Stay focused on your project with ambient noise cancellation, and collaborate virtually with others.

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**Ultimate Video Editing**
**Precision 7920 Tower**

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**Precision 7920 Tower**
Featuring the latest Intel® Core™ and Xeon® processors. For when you’re working on projects with large complexity, local and offline rendering and complex visual effects.

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**Dell UltraSharp 32 8K Monitor | UP2718Q**
For when you’re shooting in 6K or 8K, this 32” monitor allows you to review footage in its purest format.

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**Jabra Evolve 75**
This wireless headset lets you get up to stretch without being tethered. Stay focused on your project with ambient noise cancellation, and collaborate virtually with others.
When you’re working on-set, on the move, or on large, complex projects, Dell’s most powerful 17” mobile workstation is ideal for local and offline rendering and complex visual effects. It can come preinstalled with Linux, meaning you get the power to design faster, configure images in minutes and transfer large, and time-sensitive files with confidence.

PremierColor UltraHD resolution screen
You won’t believe your eyes. View your projects with complete clarity.

HDR & 8K support
Support for HDR and 8K resolution with DisplayPort 1.4 as well as dual Thunderbolt 3.

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

ISV certification
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Why Dell for AR/VR?
Find Out More

Framestore: Use Case
Find Out More

Sherpa Digital Media: Use Case
Find Out More

Dell Performance Dock | WD19DC
Incredibly powerful Thunderbolt Dock delivering up to 210W. Leave your power brick at home and plug in one cable for both data and power for your Precision 7750 workstation.

Additional productivity when you need it.

JPEG & 8K support
Support for JPEG and 8K resolution with DisplayPort 1.4 as well as dual Thunderbolt 3.

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Support for JPEG and 8K resolution with DisplayPort 1.4 as well as dual Thunderbolt 3.

HDR & 8K support
Support for HDR and 8K resolution with DisplayPort 1.4 as well as dual Thunderbolt 3.

PremierColor UltraHD resolution screen
You won’t believe your eyes. View your projects with complete clarity.

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

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

Why Dell for AR/VR?
Find Out More

Framestore: Use Case
Find Out More

Sherpa Digital Media: Use Case
Find Out More

Dell Performance Dock | WD19DC
Incredibly powerful Thunderbolt Dock delivering up to 210W. Leave your power brick at home and plug in one cable for both data and power for your Precision 7750 workstation.

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How we're turning challenges into opportunities:

Visual Effects Workflow

Modern visual effects make the unreal look real for audiences. For creators, Dell's superior visual effects technology takes the realms of probability and transforms it by dynamically fine-tuning your workstation to run your preferred applications at the fastest possible speeds, and with ISV certification, you can rest assured that you'll have guaranteed reliability too.

1. Being forced to move large parts of your infrastructure and render farms to accommodate electrical power constraints.
2. Trying to release superior content that relies on available industry talent.
3. Discerning and increasing sophistication of viewing audience requires more realistic VFX.
4. Trends such as OTT, VR and HDR are creating all new pipelines.

**Challenges:**

**How we’re turning challenges into opportunities:**

**MOTION GRAPHICS**
- Autodesk® Maya®
- Autodesk® 3ds Max®
- Foundry Modo®
- Foundry Katana®
- MAXON Cinema 4D
- SideFX Houdini™
- Blender 3D

**VFX + COMPOSITE**
- Adobe® After Effects®
- Adobe® Photoshop®
- Assimilate Scratch
- Autodesk® Flame®
- Blackmagic Fusion
- Foundry Nuke®

**COLOR GRADE/FINISH**
- Adobe® SpeedGrade®
- Autodesk® Flame®
- Blackmagic DaVinci Resolve
- FilmLight Baselight

**PUBLISH**
- Adobe® Media Encoder®

**Autodesk® Maya®**
- Autodesk® 3ds Max®
- Foundry Modo®
- Foundry Katana®
- MAXON Cinema 4D
- SideFX Houdini™
- Blender 3D

**Adobe® After Effects®**
- Adobe® Photoshop®
- Assimilate Scratch
- Autodesk® Flame®
- Blackmagic Fusion
- Foundry Nuke®

**Adobe® SpeedGrade®**
- Autodesk® Flame®
- Blackmagic DaVinci Resolve
- FilmLight BaseLight

**Adobe® Media Encoder®**
Ultimate Visual Effects
Precision 7920 Tower

For visual effects artists that want to develop mind-blowing visual effects. The revolution in visual innovation begins here. Make sure you are a leader, not a follower.

Precision doesn’t just run applications. It’s custom built for the job.

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

Find Out More

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

Find Out More

Why Dell for AR/VR?

Find Out More

Cinesite: Use Case

Find Out More

Dell UltraSharp 32 8K Monitor | UP3218K
For when you’re shooting in 6K or 8K, this 32” monitor allows you to review footage in its purest format.

Precision 7920 Tower
Featuring the latest Intel® Core™ and Xeon® processors. For when you’re working on projects with large complexity, local and offline rendering and complex visual effects.

Dell UltraSharp 27 4K HDR Monitor | UP2718Q
Review your video in HDR10 with Dell’s first 27” 4K HDR monitor. Dell PremierColor on this monitor offers everything you need to tackle color-critical jobs – wide color coverage, incredible color depth, accurate color and customizable color parameters.

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 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 Eye™
Enhance your production workflow with a virtual environment. Replace physical monitors with virtual ones, and get closer to your timeline work than ever before.

Jabra Evolve 75
This wireless headset lets you get up to stretch without being tethered. Stay focused on your project with ambient noise cancellation, and collaborate virtually with others.
Ultimate Visual Effects
Precision 7920 Tower

For visual effects artists that want to develop mind-blowing visual effects.
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Why Dell for AR/VR?
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Cinesite: Use Case
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Picture Element: Use Case
Find Out More

Visual Effects Workflow ›

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Animated Features & Game Creation Workflows

In movies, animators only have to worry about what's going to be on-screen in the field of vision, whilst in 3D video games, environments must work at a full 360-degree level. Dell delivers dynamic workstation fine-tuning to run your preferred applications at the fastest possible speeds, and with ISV certification, you can rest assured that you'll have guaranteed reliability too.

1. Being forced to move large parts of your infrastructure or render farms to accommodate electrical power constraints.
2. Trying to release superior content that rests on available industry talent.
3. Games are more immersive and expansive than ever.
4. Discerning and younger audiences are rejecting lower-quality games.
5. Trends such as OTT, VR and HDR are creating all new pipelines.

How we’re turning challenges into opportunities:

Ultimate

Find Out More
Dell’s most powerful fixed workstation delivers ultimate performance and scalability to grow alongside your vision. Now there’s no limit to your potential. And, these workstations can come preinstalled with Linux, giving you the power to design faster, configure images in minutes with starker and more lifelike graphics, plus transfer large and time-sensitive files with confidence.

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

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

**Why Dell for AR/VR?**
Click here to learn more about Dell’s leadership in immersive technologies.

**Powerhouse Animation: Use Case**
Click here to see how Dell workstations can be used for groundbreaking visual effects in the animation industry.

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Precision 7920 Tower
Featuring the latest Intel® Core™ and Xeon® processors. For when you’re working on projects with large complexity, local and offline rendering and complex visual effects.

**Dell UltraSharp 38 Curved Monitor | U3818DW**
The expansiveness of this 37.5” curved screen paired with virtually borderless InfinityEdge creates a near-complete field of view, providing an almost uniform visual focus that reduces eye movement across the screen. With fewer distractions, you’ll work more comfortably and productively.

**HTC Vive Pro Eye™**
Review your CGI project in 3D.

**3dconnexion SpaceMouse Pro**
Tumble/track/dolly in one single fluid motion, without shuffling between the mouse and keyboard.

**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 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.

**Ultimate Animating**
**Precision 7920 Tower**

*When equipped with two Intel® Xeon® Scalable Processors, available 32GB 2933MHz of memory capacity and NVIDIA® GP100 graphics. Based on Dell internal analysis of competitive workstation products as of October 2017.

**Animated Features & Game Creation Workflows ›**
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 or 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 production is 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.

**CONCEPT**

- Define major systems and how they work together.
  - Autodesk Inventor®
  - Dassault Systèmes® SolidWorks®
- Define shape, look and feel, user interaction.
  - Autodesk Alias® Studio
  - Dassault Systèmes® CATIA® Natural Sketch

**SYSTEMS DESIGN**

- Define major systems and how they work together.
  - Dassault Systèmes®
  - SolidWorks®
- Define shape, look and feel, user interaction.
  - Autodesk Inventor®
  - Dassault Systèmes® CATIA®

**INDUSTRIAL DESIGN**

- Define major systems and how they work together.
  - Autodesk Inventor®
  - Dassault Systèmes® SolidWorks®
  - Siemens NX™
- Define shape, look and feel, user interaction.
  - Autodesk Alias® Studio
  - Dassault Systèmes® CATIA®

**DETAILED DESIGN**

- Define major systems and how they work together.
  - Autodesk Inventor®
  - Dassault Systèmes® SolidWorks®
  - Siemens NX™
- Define shape, look and feel, user interaction.
  - Autodesk Alias® Studio
  - Industrial Designer

**SIMULATION / ANALYSIS (CAE)**

- Evaluate performance to meet specifications.
  - ANSYS® Mechanical™
  - ANSYS® Fluent®
  - Autodesk Inventor®
- Simulate visual experience.
  - Autodesk 3ds Max®
  - Dassault Systèmes® CATIA® Visualize

**VISUALIZATION**

- CNC Machining, create tool paths / additive MFG.
  - Autodesk HSMWorks
  - MasterCAM
  - Dassault Systèmes® DEMIA
- CNC Machining, create tool paths / additive MFG.
  - Dassault Systèmes® SolidWorks® CAM
  - Vero Software EDGECAM

**MANUFACTURING (CAM)**

- CNC Machining, create tool paths / additive MFG.
  - Siemens NX™ CAM
  - SolidCAM
  - Siemens TCVis™
- CNC Machining, create tool paths / additive MFG.
  - Siemens TCVis™
  - SURFCAM

See Dell solutions below:

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

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

Precision 5820 Tower
Expand your ideas with the Precision 5820 Tower. Featuring high performance in an innovative, versatile compact design and the latest Intel® Xeon® processors.

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

Find Out More

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

Find Out More

Why Dell for AR/VR?

Find Out More

Columbia Sportwear Use Case

Find Out More

Engineering and Manufacturing Workflow ›
Mobile Product Design
Precision 5750

Dell Precision 5750 workstation delivers scalable performance for 2D and 3D CAD applications, such as:
- Dassault Systèmes® – SolidWorks®, CATIA®, Autodesk Inventor®, Autodesk AutoCAD®, PTC Creo®, Siemens NX™

**Beauty meets performance.**
This all-new 17” mobile workstation is the smallest, thinnest and lightest in its class. Immerse yourself into the 16:10 4-sided InfinityEdge display, up to HDR400, while working away on the elegant keyboard and large touchpad. This system just over 4.7lbs, yet has the power to be Ready for VR.

**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.

**Dell Thunderbolt Dock | WD19TB**
Experience ultimate productivity with the World’s most powerful Thunderbolt™ dock*. The WD19TB offers up to 130W 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.

**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.

**HTC Vive Cosmos™**
Enhance your production workflow with a virtual environment and get closer to your designs than ever before.

**Why Dell for AR/VR?**
Find Out More

**Columbia Sportswear Use Case**
Find Out More

**ISV certification**
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**Dell UltraSharp 27 4K Monitor | U2718Q (3840x2160)**
Ideal monitor for mainstream CAD providing great color quality and resolution for detailed 2D/3D modeling.
The Dell Precision 7750 workstation delivers scalable performance for CAE applications, such as:

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

Our most powerful 17” mobile workstation is VR and AI ready. The newly designed 17” mobile workstation is also small enough to fit inside the previous generation, yet brings even more performance with the latest Intel® Core™ or Xeon® processors, up to NVIDIA® Quadro RTX™ 5000 graphics, scalable and fast storage (8TB) and memory (128GB, 2933MHz) options and an advanced thermal design to keep the system cool while running the most intensive applications.

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**ISV certification**
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**Why Dell for AR/VR?**

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**Dell UltraSharp 32 4K USB-C Monitor | U3219Q**
Ideal 32” 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 210W on the World’s most powerful dual USB-C dock*. Get the flexibility you need with magnetically separable USB-C cables.

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

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**Engineering and Manufacturing Workflow ›**
Fixed Visualization

Precision 5820 Tower

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 Optimizer for Precision

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Find Out More

ISV certification

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Engineering and Manufacturing Workflow ›

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Dell UltraSharp 32 8K Monitor | UP3218K

7680 x 4320 at 60 Hz

A large format 32" 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 Eye™

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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.

X-Rite Colorimeter i1Display Pro

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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.

### Visualize Solutions

**Visualize / Presentation**

- Simulate, share and collaborate visual appearance and ideas.
  - Autodesk 3ds Max
  - Autodesk Revit Live
  - Autodesk NavisWorks
  - Epic Games
  - Unreal Engine
  - Unity 3D
  - Chaos Vray

**Architectural Design**

- Define appearance – shape, look and feel.
  - Autodesk Revit
  - GRAPHISOFT ARCHICAD
  - Bentley Microstation
  - Robert McNeel Associates Rhino

**Analysis / Structural, Lighting**

- Analyze structural performance to meet specifications.
  - Autodesk Revit Structure
  - Autodesk Advance Steel
  - Tekla Structural Designer
  - Bentley Microstation
  - Bentley STAAD.Pro
  - Bentley RAM Steel

**Mechanical / Electrical Plumbing (MEP) Systems**

- Evaluate performance to meet specifications.
  - Autodesk Revit MEP
  - Autodesk AutoCAD MEP
  - Tekla Structural Designer

**Documentation**

- Document to pass on the Construction.
  - Autodesk AutoCAD
  - GRAPHISOFT ARCHICAD

**Construction Planning**

- Plan and coordinate building process.
  - Autodesk NavisWorks

**Construction**

- Plan and coordinate building process.
  - CNC Machining, create tool paths / additive MFG

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**See Dell solutions below:**

### Architectural Design

- Fixed
- Mobile

### Visualization

- Fixed
- Mobile

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**Design Engineering, Architecture, and Manufacturing in the Modern Era**
Fixed Architectural Design

Precision 3640 Tower

The Dell Precision 3640 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®

Dell Optimizer for Precision

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

Find Out More

ISV certification

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

Find Out More

Why Dell for AR/VR?

Find Out More

Architecture, Engineering and Construction 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.

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 Eye™

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

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.

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.

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

Ideal 27” monitor for mainstream CAD, providing great color quality and resolution for detailed 2D/3D modeling.

Precision 3640 Tower

For when you’re working on projects with large complexity, local and offline rendering and complex visual effects and the latest Intel® Xeon® processors.
**Mobile Architectural Design**

**Precision 7550**

The Dell Precision 7550 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®

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**Dell Optimizer for Precision**

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**ISV certification**

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**Why Dell for AR/VR?**

Click here to learn more about immersive experiences with VR/AR technology.

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**Dell's most powerful 15" mobile workstation.**

The newly designed 15" mobile workstation is small enough to fit inside the previous generation, yet brings even more performance with the latest Intel® Core™ or Xeon® processors, up to NVIDIA® Quadro RTX™ 5000 graphics, scalable and fast storage (6TB) and memory (128GB, 2933MHz) options and an advanced thermal design to keep the system cool while hard at work.

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**HTC Vive Pro Eye™**

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

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**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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**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.

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**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.

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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.

Precision 7920 Tower

Max performance. Superior scalability. The world’s most powerful workstation, the Precision 7920 Tower and the latest Intel® Xeon® processors, provides ultimate performance and scalability to grow alongside your vision.

HTC Vive Pro Eye™

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

The Dell Precision 7920 Tower workstation delivers scalable performance for visualization applications, such as:

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

Dell Optimizer for Precision

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

Find Out More

ISV certification

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

Find Out More

Why Dell for AR/VR?

Find Out More

Architecture, Engineering and Construction Workflow ›
Our most powerful 17" mobile workstation is VR and AI ready.
The newly designed 17" mobile workstation is also small enough to fit inside the previous generation, yet brings even more performance with the latest Intel® Core™ or Xeon® processors, up to NVIDIA® Quadro RTX™ 5000 graphics, scalable and fast storage (8TB) and memory (128GB, 2933MHz) options and an advanced thermal design to keep the system cool while running the most intensive applications.

The Dell Precision 7750 Tower workstation delivers scalable performance for visualization applications, such as:

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

Dell Optimizer for Precision
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ISV certification
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Why Dell for AR/VR?
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Mobile Visualization
Precision 7750

Architecture, Engineering and Construction Workflow ›