

## **APS Beamline Hardware (server side)**

### **Supported OS**

- RHEL 7.7+
- macOS 10.13+
- Windows 10

### **RHEL Requirements**

#### CPU

- 6C/12T @ 3 GHz with 12MB cache or better

#### Processors that meet this requirement:

- Intel Core i7-8700K
- Intel Xeon X5650

#### Memory

- 32 gigabytes (GB) of RAM or higher

#### Storage

- 512 gigabyte (GB) NVMe SSD

#### For graphics intensive applications and/or OpenGL 3D visualization

- NVIDIA graphics Quadro RTX 4000 or higher

### **macOS Requirements**

#### CPU/Processor/Graphics requirement:

- Any Apple Mac hardware from mid-2017 or later (not including the non-Pro/non-Air MacBook)

#### Memory

- 16 gigabytes (GB) of RAM or higher

#### Storage

- 512 gigabyte (GB) SSD

For graphics intensive applications, additional shared RAM may be required depending upon the Mac model.

### **Windows Requirements**

#### CPU

- 8th Generation Intel Core i7, equivalent Intel Xeon, or better

#### Memory

- 16 gigabytes (GB) of RAM or higher.

#### Storage

- 256 gigabyte (GB) SSD or larger.

#### Built in Intel graphics (if available).

- Additional GPU may be required if graphics intensive applications and/or OpenGL 3D visualization is being used.

## **Remote Hardware (client side)**

### **Supported OS**

- Linux, Mac, Windows

### **Required Software**

- Chrome Web Browser

### **Recommended Hardware**

- Eighth generation Intel Core i7 CPU or better.
- 16 gigabytes (GB) of RAM or higher
- 512 gigabyte (GB) NVMe SSD

### **Internet Connection Speed:**

- 25Mbps or faster