

## **Tecnai G2 Spirit Bio-TWIN Transmission Electron Microscope**

- High contrast, high resolution for 20 –120 kV operation
- Accelerating Voltage 20, 40, 60 80 100 120 kV
- Beam source: LaB6 filament.
- Vacuum system: Oil Diffusion (ODP) and Rotary for projection chamber; Ion (IGP) and Turbo vacuum pumps for column.
- +/-80° fully computer controlled Goniometer stage
- Optimized for 2D & 3D imaging of cells, cell organelles and soft matter
- Smart Tracking Position System for sample navigation
- Low dose mode available
- Cryo attachment for imaging of biological specimens and materials samples at sub-zero temperatures
- 4k x 2k Gatan Orius side mount CCD camera.
- DM3 operation software (Gatan Digital Micrograph)
- 3D reconstruction software
- Holders: Standard single tilt; Gatan multiple specimen holder; Standard single tilt +/- 80° Tomography specimen holder; Gatan cryo holder single tilt +/- 80° Tomography Cryotransfer Holder

### **Application fields:**

- Set up for fixing biological samples (One fume hood with HEPA and carbon filter and one chemical Fume hood)
- Thin sections of fixed embedded specimens
- Negative staining, metal shadowing of biological (proteins, viruses, cell organelles, cells, etc.) and material science specimens.
- Tomography
- Cryoelectron Microscopy
- Cryoelectron Tomography