Scientific Workflows App

Expert support at your fingertips

The Scientific Workflows App offers a step-by-step guide through the Cryo-EM SPA workflow, enabling users of all experience levels to optimize their results. The Scientific Workflows App:

- Is tailored to your system configuration and sample type.
- Ensures optimal system settings with the Workflows Assistant.
- Includes an integrated lab book and step-by-step workflows viewer.
- Provides expert knowledge from the Troubleshooting tab.

5 Tips for Cryo-EM Success

1. **Get informed.** Dr. Grant Jensen from Caltech collaborated with Thermo Fisher Scientific to produce over 75 hours of detailed videos about sample freezing, loading, system alignments and data collection. Watch them for free at https://em-learning.com/.

2. **Conduct a site survey.** Take this step prior to installing your Cryo-EM instrument to ensure that room dimensions, as well as vibration, temperature and ventilation, are all within specifications for optimum system performance.

3. **Plan your IT infrastructure.** Electron microscopy produces massive amounts of data in a short time. (As much as 2 TB per day!) Careful consideration needs to be taken during the planning phase. Recommendations include:

   a. A 10G/Infiniband connection between all systems that will transfer data.

   b. 100 TB of processing storage capacity is a good starting point for the first year of instrument operation.

4. **Control the atmosphere.** Freezing and loading your sample can be the most precarious steps of your workflow. Low relative humidity (20–30%) can help reduce contamination from moisture buildup during these steps. If your room does not meet a low-humidity requirement, a simple dehumidifier can go a long way toward reducing moisture in the air.

5. **Seek guidance.** Get step-by-step guidance on the Cryo-EM SPA workflow with our Scientific Workflows App. The lite version is available through the Apple app store and Google Play. The full version is available through the Accelerate and Advance for SPA Service Portfolios.

ThermoFisher
S C I E N T I F I C

thermoscientific

One part of a comprehensive service plan
Our Scientific Workflows App is just one important (and convenient) component of an overarching service and maintenance plan. The Thermo Scientific™ Accelerate and Advance Service Portfolios provide a variety of applications and remote and on-site services that begin the very moment you purchase your Cryo-TEM system. Our unique, digital-driven services are designed to help you make the most of your investment in Cryo-EM technology.

Our Accelerate Service Portfolio enhances your warranty experience by offering:

- Scientific Workflows App, full version
- Sample validation using a real biological sample
- Assistance in preparing your facility for a Cryo-EM instrument
- Supporting your IT development for Cryo-EM
- Dedicated assistance from a Customer Success Manager
- On-site and remote applications training and support from applications scientists who specialize in SPA, tomography and MicroED.
- Remote system monitoring to proactively identify issues
- Quarterly review sessions to optimize system performance

Our Advance Service Portfolio supports your success for the life of the Cryo-TEM system with:

- Scientific Workflows App, full version
- Digital support features from the Accelerate Service Portfolio
- On-site maintenance with a 48-hour response time
- Certified spare parts
- Preventive maintenance
- Telephone support
- Software updates
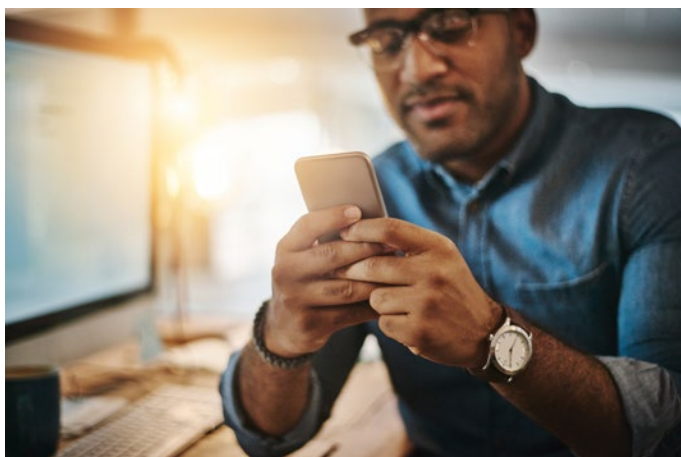
We look forward to speaking to you more about our Scientific Workflows App or answer any questions you have about our support solutions. Thank you for joining us today!

Poorna Subramanian, PhD, Customer Success Manager
poorna.subramanian@thermofisher.com

Sarah Bokich, Services Marketing Manager
sarah.bokich@thermofisher.com

Find out more at **thermofisher.com/EM-Sales**

Thermo Fisher
S C I E N T I F I C