**Workflow Engineer Sample Preparation - Cryo EM. Eindhoven, The Netherlands.**

**Job ID: 150146BR**

When you’re part of Thermo Fisher Scientific, you’ll do challenging work, and be part of a team that values performance, quality and innovation. As part of a successful, growing global organization you will be encouraged to perform at your best. With revenues of more than $24 billion and the largest investment in R&D in the industry, we give our people the resources and opportunities to make significant contributions to the world.

Thermo Fisher Scientific, material & structural analysis is supporting customers in a life science environment with Transmission Electron Microscopes (TEM) based workflow solutions. Consequently, our product development teams are faced with requirements coming from various type of customers and users with different background. This role is based in Eindhoven, The Netherlands.

**Check out these videos to get more insight in what it means to work on our complex High-Tech Transmission Electron Microscopes. These high-end tools are being developed, market and manufactured in our cleanrooms in Eindhoven, the Netherlands.**

[How to make a microscope](file:///C%3A%5CUsers%5Cnatalya.dudkina%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CINetCache%5CContent.Outlook%5CB3P0IJY1%5CHow%20to%20make%20a%20microscope)

[Site impression Eindhoven](https://www.youtube.com/watch?v=mHAOae3AMPc)

**What will you do? And how will you make an impact?**

This **Workflow Engineer Sample Preparation - Cryo EM is** positioned as technical intermediate between our Life Science customers, Business unit Life Science and the New Product Introduction teams, ensuring understanding of the Life science user cases and customer’s requirements and translating them into product requirements. This process involves multiple interconnected hardware and software systems to prepare and qualify samples, recording vast amounts of data and images, and processing the collected data into meaningful information, e.g. through 3D reconstruction. The mission of the Workflow Engineer is to prove and improve the efficiency, effectiveness and reliability of the ‘sample to information’ process with a focus on the sample preparation phase of the workflow. You will work on understanding the end-user issues, use cases, future needs on sample preparation; then translating them in product requirements and / or functions; then verifying that the solutions are indeed fulfilling the insights by means of market data analysis. Interaction and communication skills with other groups within R&D and other functions like application specialists or field service engineers are extremely important to deliver results.

The position is part of a multi-disciplinary group with several technical leads and project managers, is ideal for a person driven by pioneering on methodology and sample preparation innovation. The position will report solid into R&D and dotted into the Architect of the Single Particle Analysis workflow.

**How will you get there?**

**Responsibilities and Deliverables**

* You review and contribute to requirements, specifications and definitions of designs from a workflow perspective with focus on the Cryo-EM sample preparation phase: by collaborating with Application Specialist and Business Unit specialist to translate the general needs of market segments into user insights.
* to advise architects and designers on the workflow aspects of the modules, systems and software in their portfolio, by validating that functional and non-functional end-user requirements are fulfilled in the designs of new systems, modules and software functionalities.
* You write test plans, design functional and non-functional test cases, execute and/or oversee the execution of these test cases, report issues, and write test reports with recommendations:
	+ to identify, quantify and/or verify the parameters that influence the efficiency and yield of a workflow,
	+ to verify and validate new and updated workflow procedures,
	+ to integrate and validate new and updated hardware and software in a workflow context
* You organize and contribute to product and process FMEA’s, SRA’s and other risk identification and management practices.
* You provide input for the creation of (interactive) user guides, documentation and training materials, and will verify the completeness and correctness thereof. You support rollout of new workflow (aspects) at launching.
* You support development, test and application engineers in with solving issues and answering questions in your area of expertise.
* You promote the adoption of workflow aspects throughout all layers of the R&D department.

**Requirements and Competencies**

* Proven track record with engineering tasks as described in Responsibilities and Deliverables.
* Proven hands-on experience with Cryo EM methods and protocols. Being able to interpret the image and the relation to end result from the application point of view.
* Typically requires a University Degree, for example with a background in a life science discipline like protein biochemistry, or at a similar education level as acquired by work experience.
* Advanced affinity with improving analytical equipment design or biophysical method development.
* Proven hands-on experience in sample preparation protocols of biological specimen.
* Ability to build consensus with cross-functional teams across multiple-sites.
* Experience with statistical engineering tools.
* Ability to travel both domestically as well as internationally and possession of a valid passport. (10% max)
* Affinity with factoring in human behavior in procedures and processes.
* Strong sense of ownership for assigned tasks and responsibilities.
* Strong communication skills, eager to learn, avid promotor.
* Self-supporting, hands-on personality.

At Thermo Fisher Scientific, each one of our 70,000 extraordinary minds has a unique story to tell. Join us and contribute to our singular mission—enabling our customers to make the world healthier, cleaner and safer.

Apply today! <http://jobs.thermofisher.com>. Req. Job ID: 150146BR. More insights via simen.sturme@thermofisher.com

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