

## Multiphoton Microscope Test & Support Engineer

### About Karthala System

Karthala System is an innovative deep-tech company and a member of the Imagine-Optic Group, specializing in advanced two-photon microscopy solutions for neuroscience.

Our mission is to push the boundaries of neurobiology by providing state-of-the-art instrumentation that enables unprecedented insight into neural information processing and computation.

Our flagship product, the AODscope, leverages advanced acousto-optic deflection technology to deliver ultra-fast, highly precise imaging and stimulation of neural activity, significantly improving temporal resolution and real-time observation capabilities.

! Join us to shape the future of Neuroscience !



[karthalasystem.com](http://karthalasystem.com)

### Why Join Us:

Join a pioneering deep-tech team where things move fast and everyone contributes. You'll have direct influence on both our growth and our technological edge, working daily with a multidisciplinary crew (optics, software, electronics, production, research) and engaging with an international ecosystem of teammates and customers across Europe and North America.

### Position Overview

As a **Multiphoton Microscope Test & Support Engineer**, you will be responsible for factory testing, on-site installation, commissioning, and technical after-sales support of Karthala System microscopy solutions.

### Key Responsibilities

- Factory Testing & Validation:
  - Perform full system setup, optical alignment and calibration of Karthala microscopes at the production facility
  - Ensure systems reach full conformity and optimal performance prior to delivery
  - Develop and continuously improve test tools, procedures, and technical documentation
  - Validate new system features and design evolutions through experimental testing
- Installation & Commissioning:
  - Install, align, and calibrate microscopy systems in customers' laboratories
  - Ensure full system compliance and peak performance within customer environments
- Support and Troubleshooting:
  - Act as the technical after-sales representative and key technical contact for customers
  - Diagnose and resolve hardware and software issues, with expert support when necessary, remotely or on-site to minimize system downtime
  - Collect field feedback and actively contribute to continuous design and performance improvements

## Qualifications

### Required skills

- Education: PhD or Master's degree in Physics, Optics, or a related scientific or engineering field
- Minimum 3 years of hands-on experience in setting up complex optical imaging systems, preferentially microscopy systems, and ideally fluorescence microscopy systems such as two-photon
- Strong background in optics and laser systems
- Professional proficiency in English (B2–C1 level)

### Additional skills appreciated

- Experience in optoelectronics, especially electronics control of active components (e.g. scanners, motors, detectors)
- Familiarity with opto-mechanical design and CAD tools, capability to design / customize small parts.

## Job conditions

- Location: Orsay, France
- International travel: approximately 4–6 trips per year (Europe and North America)

## Salary

Salary package commensurate with qualifications and professional experience