



Title: Optical Specialist for the Unit of Microscopy and Dynamic Imaging.

Ref.: Optical Specialist -UM-2019

Applications at the web site:

<https://www.cnice.es/en/convocatoria/optical-specialist-unit-microscopy-and-dynamic-imaging>

The Centro Nacional de Investigaciones Cardiovasculares (CNIC) is a public research institute dedicated to excellence in cardiovascular research and to translating new knowledge into real improvements in clinical practice. This modern building is equipped with the latest scientific equipment, including state-of-the-art imaging technologies, and a comprehensive research-support infrastructure.

The CNIC is considering applications for a **full-time contract for a Light Microscopy Specialist** position under supervision of **Dr. Valeria R. Caiolfa** (<https://www.cnice.es/en/investigacion/microscopy>) within the **CNIC research infrastructure of the Unit of Microscopy and Dynamic Imaging**.

We are looking for a candidate with excellent interpersonal communication skills that will train and support the users in their biological imaging applications.

Wide experience in bright-wide field and confocal microscopy is essential. Working experience in a biological imaging facility or in similar client focus services is also required to be able to assist users in troubleshooting imaging experiments and proactively offering advice and support to solve problems quickly.

Additional preferred skills and experience are:

- Sample preparation techniques such as IF and fluorescent protein live-imaging and cell culture.
- Advanced maintenance of microscopes, technical troubleshooting and development of custom optical equipment.

Time flexibility to cover users' support in late afternoon (up to 19:00 - 20:00) will be considered a plus.

This is an excellent opportunity to join the CNIC and increase experience in the field of optical and fluorescent imaging. The Unit is equipped with the most advanced systems from Single Molecule Localization to Selective Plane Illumination microscopes. The Unit is a critical resource for researchers working in a wide range of cardiovascular basic, clinical and translational projects, and it belongs to the TRIMA@CNIC Unique Scientific and Technological Infrastructures (ICTS, <http://www.rich2020.eu/news/icts>) in Spain.

Mandatory requirements

- PhD in Life Science area, Physical Chemistry, Optical Engineering or Physics

- Not having exhausted the maximum time established for access contracts to the Spanish system of science, technology and innovation in accordance with article 22 of the "Ley de la Ciencia".

Requested Experience

- Wide and documented experience in bright-field, epifluorescence and confocal microscopy applied to fixed and live samples, including selection of fluorophores, sample preparation, cell culture, image acquisition, post-acquisition processing, instrument calibration, routine maintenance
- Experience in image analysis and programming in ImageJ/Fiji Macro Language and JAVA
- Experience in multiphoton microscopy, TIRF, SPIM, super-resolution or other light imaging advanced techniques
- Experience in individual training and user support
- Experience in advanced maintenance of microscopes, technical troubleshooting and development of custom optical equipment
- Competence in English and Spanish languages and time flexibility

We offer

- Joining a research center with international relevance and linked to the public sector
- Integration in a young and highly active team in an environment of scientific excellence
- Incorporation into a very large and modern infrastructure with the latest technologies that covers the entire range of light microscopy imaging and image analysis applications
- Competitive salary according to the candidate's expertise and qualification
- The contract duration is 1 year + 4 year maximum renewal

EVALUABLE CRITERIA

- C1. Wide and documented experience in bright field, epifluorescence and confocal microscopy applied to fixed and live samples, including selection of fluorophores, sample preparation, cell culture, image acquisition, post-acquisition processing, instrument calibration, routine maintenance (it will be valued according to the years or fraction) – MAXIMUM 25 POINTS
- C2. Experience in image analysis and programming in ImageJ/Fiji Macro Language and JAVA (it will be valued according to the years or fraction) - MAXIMUM 20 POINTS
- C3. Experience in multiphoton microscopy, TIRF, SPIM, super-resolution or other light imaging advanced techniques (it will be valued according to the years or fraction) - MAXIMUM 10 POINTS
- C4. Experience in individual training and user support (it will be valued according to the years or fraction) – MAXIMUM 15 POINTS



- C5. Experience in advanced maintenance of microscopes, technical troubleshooting and development of custom optical equipment. – (it will be valued according to the years or fraction) MAXIMUM 10 POINTS
- C6. Interview (competence in English and Spanish languages and time flexibility will be evaluated during the interview) - MAXIMUM 20 POINTS.

SELECTION PLAN

We will interview at least the **3** candidates with the highest score (C1-C5). The candidate that will be hired will be the one with the highest score selected among all the candidates with a global score (C1-C6) of 80 or more points.