

Leiden Probe Microscopy, Leiden, Netherlands, September 2021

Leiden Probe Microscopy is expanding the team and is looking for an enthusiastic:

Application Scientist

Who are we?

LPM originated 16 years ago from the Interface Physics group at Leiden University, where a small group of enthusiastic scientists and engineers developed a set of surface science equipment pushing the limits beyond the state of the art. That philosophy of letting scientists and highly skilled engineers work closely together still lives on today.

In close collaboration with our customers we design, assemble and install high-tech instrumentation for in situ surface science. The applications range from Scanning Probe Microscopy to X-ray and optical techniques in extreme environments (i.e. extreme pressures, temperatures and subject to catalytic reactions).

Job description

As an application scientist you will participate in multi-disciplinary project teams and contribute to the development of novel and unique research setups. In the first year you will join the DirectSepa project team. Here you will contribute to the development of a research setup to investigate the best method to separate 2D materials such as graphene from a liquid metal catalyst such as liquid copper. You will have to implement various inspection techniques all working together as one system such as optical microscopy, Raman spectroscopy, and mass spectrometry. You will develop, test and work with CVD and catalysis processes, execute experiments, and process the data. You will also contribute to the development of new ideas for mechanical separation of single atom layer materials. See the lmcat.eu website for more information about this project in general. You will work under the supervision of a project leader.

Requirements

As an application scientist you will need to have a deep found interest in and eager to learn about scientific research techniques and instrumentation such as scanning probe microscopy, high pressure instrumentation, chemical vapor deposition, optical microscopy, and others, and pushing these techniques to be compatible with extreme environments. We are looking for a young experimentalist with a master degree in physics or chemistry and some experience in doing scientific research (e.g. internships or previous jobs). You must be eager to work with complex and high-end instrumentation and thereby is some experience in programming (e.g. Python) an advantage. You are self-propelling, pro-active, and an excellent team player and you have a flexible attitude. Obviously, you have good communication skills in English. Mastering the Dutch language is not required, but a basic understanding is welcome.

What we offer

- A very dynamic and inspiring environment and tons of experience and know-how;
- A full time employment, parttime can be possible as well (>0.6 fte);
- a competitive salary;
- Good secondary conditions.

How to proceed

Please send us your resume (CV) and let us know what sparked your interest in the job. After receiving your application, we, Gertjan van Baarle (director) and Marc de Voogd (project lead DirectSepa at LPM), will contact you to have a chat at our location to get to know each other. Your start date can be discussed to meet your situation, but 'immediately' sounds good to us.