

Early Stage Researcher, Marie Skłodowska-Curie Horizon 2020 Innovative Training Network Spin-NANO, 36 months position

Start: January 2017 or earlier

This Early Stage Researcher (ESR) position is within the EU research network Spin-NANO (2016-19), which will investigate spin phenomena on the nano-scale and will develop advanced materials and hardware for this research. The network will employ 15 Early Stage Researchers in 6 EU countries. For more information see [Spin-NANO web-site](#).

ITN rules apply strict mobility requirements: please see at the end of the letter.

ESR based at attocube will be strongly encouraged to enroll for a PhD programme at a suitable university in Munich or elsewhere.

Job Description:

attocube Systems AG is seeking a research scientist. You will be responsible for designing and developing new technology-based research instrumentation and conducting challenging innovation projects in the field of optical sensing and optical microscopy, ultra precision positioning and cryogenics. You will innovate and create products in compliance with industry standards and production methods. Based on your growing experience in the team you will have the potential to grow in participating into formulating future visions and strategies for the group. The position is initially based on a three year Innovative Training Network (ITN) contract funded by the Marie-Sklodowska-Curie Actions (MSCA) in Horizon 2020.

Essential and desirable skills:

- Any of the following: Optics, Laser optics, instrumentation, microscopy, cryogenics.
- Good writing and communication skills are essential.
- Understanding industrial drawings, basics in CAD, understanding basics of electronics, Lab view, would be very desirable.
- A definite advantage if you have basic skill in German.

You will carry out the following tasks:

- Translate functional needs into specifications.
- Participate in the design and development of the innovative technology.
- Set up the test and validation phases.
- Correct and improve at all stages of the project.
- Gather business intelligence (patent, technology and competitive intelligence) to identify new scientific trends and conduct strategic planning.

Strong priority will be given to the following tasks:

- Work in close contact with the field, in particular within the Spin-NANO network.

- Participate in implementing, and complying with, health, safety and environmental regulations on a daily basis.

ITN eligibility rules:

Under the conditions imposed by the ITN European funding scheme, at the time of recruitment, the candidate must not have resided or carried out his/her main activity (work, studies, etc.) in Germany for more than 12 months in the 3 years immediately prior to start of the contract. (Compulsory national service and/or short stays such as holidays are not taken into account). Furthermore, the candidate shall, at the time of recruitment, be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

Salary:

Under the ITN funding, ESRs enjoy a generous pay and reward package. For further details please get in touch with Khaled Karrai (attocube) or Sally Greenhough (Sheffield, UK, Spin-NANO coordinator support).

Contact:

For further inquiries please contact Khaled Karrai at Khaled.Karrai@attocube.com. For general inquiries about Spin-NANO please contact Sally Greenhough (s.greenhough@sheffield.ac.uk) and visit [Spin-NANO web-site](#).