Deadline:
31 May, 2018

Location
University of Vienna, Austria

The Quantum Nanophysics Group at the University of Vienna, is headed by Prof. Markus Arndt and a leading team in *macromolecular quantum optics* as well as *cavity optomechanics with free & levitated nanoparticles*.

We are embedded into a vibrant quantum optics community, including the Vienna Doctoral Program of Physics (VDSP), the Vienna Doctoral School on Complex Quantum Systems (CoQuS) and the Erwin Schrödinger Center for Quantum Science and Technology (ESQ).

In this specific call we are searching for an outstanding doctoral candidate who wants to pursue experimental research in the field of

Cavity cooling and rotational optomechanics of dielectric nanorods.

This work will build on recent progress and publications in our lab, including the launching and control of silicon nanorods in optical fields. Aim of the experiments will be to cool the motion of these particles using active feedback and cavity cooling methods and eventually prepare them for quantum experiments. Further information can also be found on the group homepage:

www.quantumnano.at/research/nano-optomechanicscooling/rotational-opto-mechanics/

If you

- love your work as an experimentalist
- are happy working with theorists on models for your experiments
- have a solid training in optics & quantum optics
- have the ambition to work on experimental challenges and far-reaching visions
- have the technical skills, self-motivation and tenacity to realize them in the lab
- like being part of a team

you are invited to apply for a position as a **University Assistant (Predoc)** with **Markus Arndt.**

A candidate will usually hold a relevant Master's degree, already, or will be certain to complete it within 2 months after the application deadline. You may be also eligible if you hold an excellent Bachelor's degree with honors (4 years of study). Please inquire.

This position includes a **4-year contract** with a PhD salary and benefits following the national Austrian rules. The contract includes teaching as a mentor in exercises or lab courses, typically to the extent of 2 hours per week, 26 weeks of the year.

You must be fluent in English or German. If you do not speak German, yet, you will be eligible for intense German training.

The application deadline is **31 May 2018**

Please send all relevant documents, (CV, study records, list of talks and publications. possible distinctions), **as one single merged PDF** file to **markus.arndt@univie.ac.at**