



WESTFÄLISCHE
WILHELMS-UNIVERSITÄT
MÜNSTER

Job advertisement

The Institute of Applied Physics, University of Münster, invites applications for a

PhD position (TV-L 13/2)

in the Nonlinear Photonics Group of Prof. Cornelia Denz in the field of **Optical Manipulation with optical traps and optical tweezers for applications in biological, chemical and clinical fields.**

The initial funding for this position is limited to two years. An extension of the period is intended. The working time is equivalent to the half of regular weekly working time, currently 19 h 55 min.

The Nonlinear Photonics group - among other research fields – focuses on the possibilities to control matter on the micro and nanometer scale, i.e. to trap, to move, to structure, and to organize particles. The optical traps for this purpose are constructed either in the form of complex light fields or holographic optical tweezers. They are particularly useful to control individual particles or up to a few hundred particles. In the advertised position, particular applications to organize matter and to control self-organizing effects in biological, biochemical and medical areas should be developed and tested in addition to further developments of complex tweezers configurations.

Applicants should hold the equivalent of a masters or diploma degree in physics and possess experience in the prospective field of work. We are looking for highly motivated students, with the ability for self-dependent scientific work and excellent communication and teamwork skills.

Applications from women are highly encouraged and will be favored in case of equal qualification, competence and specific achievements. Handicapped candidates with equivalent qualifications will be given preference.

Please send your applications with the usual documents by 20.10.2012 to

Prof. Dr. Cornelia Denz, Institute of Applied Physics
Westfälische Wilhelms-Universität Münster, Corrensstr. 2/4,
D – 48149 Münster, Germany

For further information please contact Prof. Dr. C. Denz (Tel. 0251/83335-17 / -18)
or visit: <http://www.uni-muenster.de/Physik/AP/Denz/>