

## Open PhD positions

Nanomethods to understand what makes an endogenous protein immunogenic

Biophysics / Physical chemistry

University Medicine Greifswald (Greifswald, Germany)

**Two PhD positions (funded by an ERC Starting Grant) devoted to identify those features that make an endogenous protein immunogenic are available at the University Medicine Greifswald.**

We are seeking enthusiastic and creative PhD students with an advanced degree (MSc) in biology, biochemistry, physics or related fields. Candidates should have a strong interest in interdisciplinary work ranging from biology via physics to medicine. Advanced knowledge of protein structure and protein interactions is of advantage.

The aim of the project is to explore the antibody-mediated immune reactions to endogenous proteins using high sensitivity nanotechnological tools based on spectroscopic and imaging techniques (e.g. circular dichroism spectroscopy, single molecule force spectroscopy, isothermal titration calorimetry, fluorescence microscopy). The interaction of autoantibody-antigen complexes with cells of the immune system will be also characterized. The final goal is to better understand autoimmunity and to develop new ways for prevention and treatment in medicine, and to optimize the production of safer biotherapeutic drugs.

Starting date of the position: Spring 2015. The salary will be 65% of TV-UMN E13.

Interested candidates are asked to send their applications including a detailed CV, a motivation letter and two letters of recommendation addressed to Dr. Mihaela Delcea: [delceam@uni-greifswald.de](mailto:delceam@uni-greifswald.de)