The Rheinische Friedrich-Wilhelms-Universität Bonn is an international research university that offers a wide range of degree programs. With 200 years of history, about 38,000 students, over 6,000 employees, and an excellent domestic and international reputation, Bonn University is among Germany’s leading universities. In the recent excellence initiative, the University of Bonn was the most successful university in Germany with six Clusters of Excellence, ranging from mathematics, immunology, dependency research, robotics, economics to quantum physics.

Starting 01. April 2019 and preliminarily limited to 3 years, the Institute for physical and theoretical chemistry is seeking a

**Doctoral candidate (50%, TV-L E13)**

The PhD candidate will study the optical properties of large organic molecules on solid surfaces by laser spectroscopy. The molecules are vapor-deposited under ultra-high vacuum conditions on well-defined, crystalline surfaces. Subsequently, the fluorescent light is measured. The goal is to determine the optical properties of small molecular aggregates with defined structures and to interpret them in collaboration with theoreticians. The work combines aspects of optical spectroscopy and microscopy using surface science techniques, such as, e.g. diffraction of low energy electrons or scanning tunneling microscopy.

**Your profile:**
- Master’s degree in physics or chemistry (the position is equally suitable for physicists and chemists)
- Knowledge in laser spectroscopy, ultrahigh vacuum technology, surface science, physical chemistry, molecular physics, or solid state physics would be an asset for the position, or can be acquired therein
- Near-native knowledge of English and/or German
- Motivated, flexible, team oriented and interested in continued professional development
- Commitment to experimental work, scientific interest and team spirit is expected

**We offer:**
- A varied and challenging position with one of the biggest employers in the area
- Opportunity to pursue a PhD
- Funding for conference travel, a personal computer
- Participation in the university-wide pension system (VBL)
- An excellent transport infrastructure with the opportunity to obtain a discounted employee ticket for public transportation (VRS) or to use assigned affordable parking
- Access to the extensive university sports program
- Salary based on the 13 TV-L scale

**Your responsibilities:**
- Conducting research leading to peer reviewed publications and conference presentations
- Participating in conferences, research groups, and outreach activities
- To teach students at the undergraduate and graduate level

The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university and aims to increase the proportion of women employed in areas where women are
under-represented and to promote their careers. To that end, it urges women with relevant qualifica-
tions to apply. Applications will be handled in accordance with the Landesgleichstellungsgesetz (State
Equality Act). Applications from suitable candidates with a certified disability or equivalent status are
particularly welcome.

Complete applications (consisting of a CV, certificates, list of publications and a letter of motivation)
should be submitted until 28th of February 2019 via email as a single PDF file to Prof. Dr. Moritz
Sokolowski at the following e-mail address: sokolowski@pc.uni-bonn.de (subject: Application Code
01/19/331).