

The University of Bonn with two Clusters of Excellence, the Hausdorff Center for Mathematics, and ImmunoSensation, intends to significantly strengthen the existing collaborations between these two clusters and to establish an internationally visible research group in the field of mathematical modeling in life and medical sciences. In this context, it invites applications for

two temporary Professorships (W2) for 5 years

to be filled as soon as possible. A tenure-track option may be possible, and in exceptional cases, a position may be tenured immediately. Alternatively, the W2-positions will come with reduced teaching load (4 hours per week).

The positioning of the research group at the interface of two clusters of excellence is expected to provide a unique opportunity to develop new and challenging mathematical models with a significant impact on the understanding of the immune system and immune-mediated diseases.

The new research group shall engage in efficient modeling of the complex processes in medical and life sciences as well as in the mathematical analysis of the involved mathematical structures. The range of possible topics includes – but is not limited to – the analysis of information processing, the dynamics of the immune response, modelling and optimization of treatment protocols, or the interplay with genetics, sparse data problems in single cell approaches, modelling and integration of multi-layer genomics data, predicting and modelling cell behavior from perturbation experiments, analysis of two to three-dimensional images including dynamic images in the context of immune response.

Applications should have a strong research background in applied mathematics or theoretical life sciences, and a proven record and interest in mathematical modelling in close collaboration with experimental researchers in life sciences.

Active cooperation in the excellent environment of both clusters is expected. Depending on the respective research focus, candidates become members of one of the mathematical institutes, or the Life & Medical Sciences Institute (LIMES) of the Faculty of Mathematics and Natural Sciences, or the Bonn Institutes of Immunosciences and Infection of the Faculty of Medicine at the University of Bonn.

The general conditions of employment are according to §36 of the Higher Education Act of North Rhine-Westphalia (Hochschulgesetz des Landes Nordrhein-Westfalen).

The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university and has a dual career service. It aims to increase the proportion of women in areas where women are under-represented and to promote their careers in particular. It therefore strongly encourages women with relevant qualifications to apply. Applications will be handled in accordance with the Landesgleichstellungsgesetz (State Equality Act). Applications from suitable individuals with a certified serious disability and those of equal status are particularly welcome.

Applications should be sent, using our online application from <https://hcm.uni-bonn.de/hcm-immunosensation/>, by **September 30th, 2019** to Prof. Dr. Anton Bovier, Institute for Applied Mathematics, Endenicher Allee 60, D-53115 Bonn, Germany.