The Institute for Computer Science at the Faculty of Mathematics and Natural Sciences of the University of Bonn, Germany, and the Fraunhofer-Gesellschaft are seeking to appoint a suitable candidate at the earliest possible opportunity as

**Professor (W3) for Data-based Simulation with Industrial Applications**

and

**Head of a research group of the Fraunhofer Institute for Algorithms and Scientific Computing (Fraunhofer SCAI),**

Applications are invited to fill this dual position according to the Berliner Modell.

The professorship is initially limited to 5 years, but can afterwards be upgraded to a permanent position with the consent of the Fraunhofer-Gesellschaft.

The University of Bonn and the Fraunhofer Institute for Algorithms and Scientific Computing have been collaborating for years in the fields of algorithms, scientific computing and numerics.

The Fraunhofer Institute for Algorithms and Scientific Computing is partner of the industry in the fields of computational science and optimization as well as for information extraction from large data sets. The institute models and optimizes industrial applications, develops software and services for product design, process development and manufacturing, and offers computations on high performance computers. The aims are to shorten development times, to reduce the cost of experiments and to optimize production processes.

Applicants are expected to have demonstrated scientific excellence in at least one of the following areas:
- Uncertainty Quantification,
- Data Analysis and Visualization,
- Numerical Simulation
for e.g. Geo Data Analysis, Medical Data Analysis, Additive Manufacturing or Technical Cybernetics.

The successful candidate represents the area in research and teaching at University of Bonn and, by way of joint appointment, is also active at the Fraunhofer Institute SCAI, where s/he should build up and lead a new research group.

The acquisition of research grants as well as the cooperation with industry is expected, proven experience is welcome.

Teaching will address all stages of computer science studies in the German and/or English language, relevant teaching experience is expected.

Young researchers in the early stages of their careers are explicitly encouraged to apply.
Formal requirements are defined by § 36 of the Higher Education Act of North Rhine-Westphalia (Hochschulgesetz Nordrhein-Westfalen).

The successful candidate will enjoy the opportunity to participate in a wide variety of projects with a high degree of practical relevance as well as a great deal of flexibility in pursuing research work. The University of Bonn and the Fraunhofer-Gesellschaft have a family-friendly HR policy that includes the opportunity to arrange flexible working hours and various types of support for achieving a successful work-life balance.

The University of Bonn and Fraunhofer-Gesellschaft actively support diversity and equal opportunities. The University of Bonn has been certified as a family-friendly university and offers a dual career service. Its aim is to increase the proportion of women in those fields in which women are underrepresented and to place a special focus on promoting their careers. Therefore, we specifically request applications from suitably qualified women. Applications will be handled in accordance with the Equal Opportunities Act of North Rhine-Westphalia. Applications from suitably qualified people with proven severe disabilities or from people with equivalent status are particularly welcome.

The University and the Fraunhofer-Gesellschaft value and actively promote the diversity of skills among their employees. They therefore welcome all applications, regardless of age, gender, nationality, ethnicity, social background, religion, ideology, disability, sexual orientation or identity.

Applications including the usual documents (cover letter, curriculum vitae, list of publications, selected publications, research plan, teaching concept, copies of degree certificates) should be sent exclusively in electronic form (PDF file) to fachgruppe@informatik.uni-bonn.de by November 15, 2021.

Further information about the position is available from Prof. Dr. Michael Griebel (Institute Director Fraunhofer SCAI, michael.griebel@scai.fraunhofer.de).

Your applications will be forwarded to Fraunhofer SCAI in compliance with data privacy laws. Information on the collection of personal data in the application process can be found at https://recruiting.fraunhofer.de/Vacancies/22883/DataProtection/1