At the Institute of Computer Science of the Faculty of Mathematics and Natural Sciences of the University of Bonn and the Fraunhofer Institute for Algorithms and Scientific Computing (Fraunhofer SCAI) a

**W2 professorship with tenure track to W3**

**AI-Driven scientific discovery**

according to the Berlin model and in personal union

**the management of a working group at the Fraunhofer Institute for Algorithms and Scientific Computing SCAI**

as part of the cooperation between faculties and chairs of the university and institutions of the Fraunhofer-Gesellschaft is to be filled at the earliest possible date.

The University of Bonn and the Fraunhofer SCAI have been cooperating for years in the fields of algorithms, scientific computing and numerics. The Fraunhofer Institute for Algorithms and Scientific Computing SCAI is a partner to industry in the fields of computational science and optimisation as well as information extraction from large data sets. The institute models and optimises industrial applications, develops software and services for product design, process development and production and offers calculations on high-performance computers. The aim is to achieve shorter development times, more cost-effective experiments and optimised processes.

In your new role, you will competently represent the field in research and teaching at the University of Bonn and at the same time assume scientific and economic responsibility at Fraunhofer SCAI, where you will set up and lead a new working group. Integration into the Transdisciplinary Research Area Modelling as well as participation in current and planned Clusters of Excellence at the University of Bonn is desirable.

Ideally, you will have experience in leading a research team and in technology commercialisation. The acquisition of third-party funding for research projects, the acquisition and processing of industrial contracts and the maintenance of co-operative relationships with industry are expected; proven experience is beneficial. Teaching on the Bachelor’s and Master’s degree programmes in Computer Science at the University of Bonn in German and/or English is an integral part of the professorship.

Young academics in the early stages of their career are encouraged to apply. The recruitment requirements are based on § 36 HG NRW.

The University of Bonn is committed to diversity and equal opportunities. It is certified as a family-friendly university and has a dual career programme. Its aim is to increase the proportion of women in areas in which women are underrepresented and to promote their careers in particular. It therefore strongly encourages applications from suitably qualified women. Applications will be treated in accordance with the State Equal Opportunities Act. Applications from suitable severely disabled persons and persons of equal status are particularly welcome.
Applications received by **30.09.2024** are guaranteed to be considered. The appointment committee reserves the right to also consider applications received after this date. Please apply with the usual documents [letter of motivation, CV, list of publications, third-party funding, research concept (max. 2 pages) and teaching concept (max. 1 page)] via our online portal: [https://berufungsportal.uni-bonn.de](https://berufungsportal.uni-bonn.de).

Further information about the position can also be obtained from Prof. Dr Michael Griebel (michael.griebel@scai.fraunhofer.de, Institute Director Fraunhofer SCAI) and Prof. Dr. Reinhard Klein (rk@cs.uni-bonn.de, Chair of the Appointment Committee).
Evaluation criteria for filling the W2 professorship AI-driven Scientific Discovery according to the Berlin model (W2 tenure-track W3) at the Institute of Computer Science together with Fraunhofer SCAI

Evaluation criteria proposed for the professorship in accordance with §7 paragraph (2) and Annex A of the Regulations for the Interim and Final Evaluation of Tenure-Track Professorships at the Rheinische Friedrich-Wilhelms-Universität Bonn dated November 28, 2023 (Tenure-Track Regulations)

I. Research performance

Establishment of an own working group at Fraunhofer SCAI
- with 5 employees after 5 years
- Funding ratio of over 80% from raised third-party funds, of which at least 40% come from industry revenues.

Cooperation and technical innovation capability
Recognizable e.g. by:
- notable successes in competitive procedures (excellence research funds, DFG, ERC)

Potential for scientific development in an international comparison
Recognizable e.g. by:
- extraordinary contribution to the development of the research field, new methodological and conceptual developments,
- above-average quality, originality, creativity and independence of research, demonstrated by publications in peer-reviewed journals and conference papers, or
- outstanding international visibility (proven e.g. by h-index / citations, activity as editor, lecture invitations, prizes)

Promotion of young scientists
Recognizable e.g. by:
- successful supervision of doctoral students and postdoctoral researchers, or
- quality of graduates' subsequent positions and careers

II. Teaching

Teaching performance
Recognizable e.g. by:
- successful supervision of Bachelor's and Master's theses as well as verified high quality and broad teaching spectrum, taking into account the type (lectures, seminars, internships, professional development, etc.) and the educational levels (BSc, MSc, PhD, part-time), internationality and diversity, taking into account the teaching evaluations of participants, or
- successful supervision of Bachelor's and Master's theses

Conception of teaching materials
Recognizable e.g. by:
- development or introduction of new teaching content, didactic teaching concepts and teaching formats, e-learning, especially in the area of continuing education, or
• participation in didactic training measures or interdisciplinary events

III. Academic commitment

Participation in academic self-administration

Recognizable e.g. by:
• participation in internal university commissions, committees or activities affecting the public

IV. Management responsibility

Personnel management skills

Recognizable e.g. by:
• leading of working groups and taking on direct personnel responsibility

Please note, that while the English translation of evaluation criteria reflects the German version as closely as possible in word and content, only the German version is legally binding.