



The German Federal Institute for Risk Assessment (BfR) is the national institute which prepares expert reports and opinions on questions concerning the safety of food, feed and chemicals, as well as consumer health protection, on the basis of internationally recognised scientific evaluation criteria. It advises the Federal Government and other institutions and interest groups in these areas. The BfR conducts its own research on topics that are closely linked to its assessment tasks. It is an institution with legal capacity within the portfolio of the Federal Ministry of Food and Agriculture (BMEL).

The following position as head of the “Supply Chain Models” junior research group is to be filled with immediate effect for an initial period of three years in the Biological Safety department at the BfR:

Scientific Officer (m / f / d)

Reference number: 2224/2019 | Salary group 14 TVöD

Part-time work is possible.

The limited employment period is based on the German Fixed-Term Research Contracts Act (Wissenschaftszeitvertragsgesetz).

Duties:

- Heading of the junior scientific research group Supply Chain Models, including the supervision of doctoral candidates
- Conception and build-up of a knowledge base for food and feed manufacturing process models and toxicokinetic models
- Implementation of microbial and chemical risk assessment models from specialised scientific literature
- Conception and development of methods for the efficient derivation of risk-based process criteria, such as Performance Objectives (PO), Performance Criteria (PC), Microbiological Criteria (MC), Process Criteria (PrC)
- Planning, supervision and evaluation of experimental studies in the field of food technological processes of the BfR to develop new mathematical prognosis models
- Further development of modelling software in the BfR “FoodRisk-Labs” portal (<https://foodrisklabs.bfr.bund.de>), in particular the RAKIP Model Repository and the KNIME extension FoodProcess-Lab, as well as the establishment of cooperations with the developers of other software tools, such as FDA-iRISK (<https://irisk.foodrisk.org/>) and “MicroHibro” (<http://www.microhibro.com/>)
- Build-up of a knowledge base for food and feed manufacturing processes, process parameters and food and feed supply chains

- Collaboration in the further development of the data standard "Food Safety Knowledge Markup Language" (FSK-ML), as well as involvement in the development and maintenance of harmonised terminologies and ontologies on the standardised description of data and mathematical models
- Support of BfR staff in the assessment of microbial and chemical risks (e.g. the preparation of model-based forecasts on the survival and/or propagation and spread of pathogens in food production or on the transfer of contaminants among food-producing animals)
- Application for national and international research projects
- Drafting of specialised scientific publications, presentation of research results at national and international conferences, conducting of training
- Collaboration in cross-departmental BfR work groups and committees

Requirements:

- University degree (master's, diploma or comparable university degree) with doctorate in Veterinary Medicine, Food Technology, Biology, Biochemistry, Bioinformatics or comparable subject with a biological emphasis
- Proven experience in the field of quantitative microbial risk assessment (QMRA) and predictive microbiology
- Reliable application of the programming languages R and Matlab
- Experience in the field of quantitative microbial risk assessment (QMRA) and predictive microbiology of advantage
- Confident handling of KNIME data analysis software and the KNIME software extensions Predictive Microbial Modelling Lab (PMM-Lab) and Food Safety Knowledge Lab (FSK-Lab) of advantage
- Experience in the field of bioinformatics (sequence analysis) and WGS of advantage
- Proven high level of communication skills and organisational competence
- Very good written and spoken German and English
- Good computer literacy as well as a conscientious work approach, flexibility, ability to work in a team and the ability to cope with pressure are prerequisites

The place of work is Berlin.

Application process:

Does this offer appeal to you?

If so, then please submit your application via our online system by **23 April 2019**:

[Apply online](#)

If you have any questions regarding the application procedure, please contact: bewerbung@bfr.bund.de.

– Please do not send any applications to this e-mail address –

If you are unable to submit your application online, you have the option of sending it by standard mail, stating the relevant reference number

[Bundesinstitut für Risikobewertung](#)

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[Max-Dohrn-Str. 8-10](#)

[10589 Berlin](#)

Please direct any questions on the scope of duties to:

Prof. Dr. Nöckler **Tel.: 030 18412-24000**

Mr. Filter **Tel.: 030 18412-24109**





The BfR welcomes applications from people of all nationalities.

As an innovative scientific institution, the BfR offers family-friendly working conditions for which it was awarded the “audit berufundfamilie®” (work and family) certificate. The BfR guarantees equal career opportunities for women and men. In the case of equal suitability, severely disabled applicants will be given preferential consideration and are only required to have a minimum level of physical suitability.

This text version is a translation of the original German text which is the only legally binding version.