



The German Federal Institute for Risk Assessment (BfR) is the national institute which prepares expert reports and opinions on questions of food, feed and chemical safety and consumer health protection in Germany on the basis of internationally recognised scientific assessment criteria. It advises the Federal Government and other institutions and interest groups in these areas. The BfR conducts independent 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).

In the department Food Safety of the BfR in the unit “Effect-based Analysis and Toxicogenomics”, the following position is immediately available as part of the NAMS4NANO project for a fixed term of three years:

Doctoral candidate focusing on the investigation of nanoparticles containing copper oxide (f/m/x)

Reference number: 3197 | Salary group 13 TVöD | Application deadline: 19/02/2023 | Place of employment: Berlin

The position is part-time, with 65 % of the regular weekly working hours (currently 25.35 hours). The time limit is set on the basis of the Act on Fixed-Term Contracts in Academia (Wissenschaftszeitvertragsgesetz).

The position should be used for a doctorate. Participation in the accompanying doctoral programme is compulsory. This serves to impart both scientific and methodological knowledge and offers the opportunity to regularly present doctoral projects in internal events and benefit from scientific exchange.

Tasks:

The job is being advertised as part of an EFSA-funded third party project, NAMS4NANO, which deals with the application of “New Approach Methodologies” (NAMs) for the risk assessment of nanomaterials in EFSA’s areas of responsibility. The oral uptake route is particularly relevant, whereby dermal and inhalation intake routes also being considered. Different NAMs (e.g., *in silico*, *in chemico* and *in vitro* methods) are of interest in the project.

The individual tasks include:

- Preparation of a doctoral thesis as part of the NAMS4NANO project focusing on the investigation of nanoparticles containing copper oxide (as a component of e.g. feed additives and pesticides) using human and animal *in vitro* cell models
- Planning, implementing and evaluating toxicological *in vitro* experiments
- Method development and method validation of test procedures as replacement methods for animal experiments as part of the 3R strategy
- Quantification of cellular intake and transport of copper using *in vitro* barrier models
- Elemental analysis of copper using AAS and ICP-MS

Requirements:

- University degree University degree (master's, diploma or a comparable university degree) in biochemistry, toxicology, pharmacy, chemistry, biology or a similar subject
- Basic knowledge in toxicology and especially in the field of alternative methods advantageous, knowledge in the field of nanotoxicology preferable
- Practical experience in handling cell cultures and toxicological test procedures desirable
- Experience in analytical measurement methods (AAS, ICP-MS) advantageous
- Good written and spoken German and English language skills desirable
- Independent, careful way of working
- Knowledge and practical experience in the use of standard IT applications and in dealing with databases advantageous
- Flexibility, commitment, ability to work under pressure and in a team are required

What we can offer you:

- Trust-based working hours
- 30 days' annual leave (5-day week) plus 24 and 31 December as non-working days
- Additional days-off options via time credits
- Job ticket with a monthly employer contribution up to EUR 40
- Mobile working options
- Very good connection to the public transport network
- Comprehensive further training opportunities for professional and personal development within the context of your position
- VBL company pension
- Capital accumulation benefits
- Employee welfare (AWO) family service

Application process:

Interviews are expected to be held in the 11th calendar week (13-17 March 2023).

Does this position appeal to you?

[apply online](#)

Then please apply by **19 February 2023** via our online system. Please address any questions in connection with the application process to bewerbung@bfr.bund.de.

– Please do not send any applications to this email address –

If you cannot apply online, please send a postal application to [Bundesinstitut für Risikobewertung / Personalreferat / Max-Dohrn-Str. 8- 10 / 10589 Berlin](#)

Please address any questions about the area of responsibility to:

Mr. Sieg (tel: 030 18412-25102) or Mr Pieper (tel.: 030 18412-28400)

You will find more information on our homepage: www.bfr.bund.de/de/stellenanzeigen

The BfR welcomes applications from people of all nationalities.

The BfR is an innovative scientific institute offering family-friendly working conditions. The BfR 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.



Im Geschäftsbereich des
Bundesministerium
für Ernährung
und Landwirtschaft

