



Bundesanstalt für
Materialforschung
und -prüfung

Job offer

The mission of the Federal Institute for Materials Research and Testing (BAM) is to deploy technology in a safe and environmentally friendly way. Our research, testing, approval and regulation activities are intended to promote safety in engineering and chemistry. As a higher federal authority and departmental research institution of the Federal Ministry of Economics and Energy (BMWi), with 1700 employees, we have national and international responsibilities, cooperate with universities and non-university research institutions and support young academics.

BAM's Department 1 "Analytical Chemistry; Reference Materials" in Berlin-Adlershof invites applications for a position as

Senior Scientist in Natural Sciences or (Bio-)Informatics for Statistical Data Analysis (Data Science)

Remuneration is effected according to salary scale 14 TVöD. The appointment is permanent with 100 % of standard working hours. The workplace is suitable for part-time.

Job Description:

Analytical Chemistry provides an active contribution to the safety of our environment and food providing new insights. High-resolution mass spectrometry is a key technology in this context. Its potential can only be fully exploited with the employment of statistical data analysis (Data Science).

The focus of the position is the establishment and coordination of a centre for mass spectrometry for organic environmental, food, and materials analysis. Your role is research and development in the area of applied chemometrics, underpinning target-, suspected target and non-target strategies with high-resolution mass spectrometers (HRMS). You develop innovative concepts for uni- and multivariate data analysis (Data Science) via establishment and application of software-based methods. Your task area includes build-up, maintenance and use of database tools (e.g. Catabol, MasterView, Sieve, METLIN) for structure elucidation and prediction of unknown compounds. In that way you contribute to the identification of contaminants, transformation products, metabolites, and additives in HRMS-based metabolic profiling studies of complex environmental and food samples as well as in the HRMS-based fingerprinting in the context of imaging studies for food authenticity, product safety and environmental sustainability of materials. It is our objective to provide a substantial research contribution to HRMS analysis, especially to quality assurance in this field.

Your tasks include acquisition and management of research projects, support of the scientific staff and supervision of young academics in this area. A characteristic of the function is a distinctive discrete paper output and presentation activity, representation of the working area internally and externally as well as national/international networking with academia, industry, service providers, and agencies. Besides research, an element of the function is the participation in relevant standardisation committees as well as technology transfer to SMEs.



Profile Requirements:

You are in possession of a university degree (Master/Diploma) in the field of Natural Sciences or (Bio-) Informatics or comparable disciplines with an at least “good” result, a Ph.D. degree with predicate “very good” and experience as a postdoctoral researcher in the relevant research area.

We expect comprehensive knowledge and competence in the area of statistical data analysis of profiling/fingerprinting experiments, preferably in the field of high-resolution mass spectrometry. You dispose of profound experience in the application of the relevant software for multivariate data analysis/chemometrics and confident use of mass spectrometric databases. We request command of good basic knowledge in analytical sciences (instrumental analysis). You have a proven publication record (peer-reviewed papers) in the relevant research field, experience in proposal writing and acquisition of third-party funding and the ability to structured working in a scientific environment. Excellent command of the English language in writing and presentation is a prerequisite. Your function in an interdisciplinary scientific environment requires a high degree of engagement and creativity, capacity for co-operation and team spirit, and high commitment to responsible and autonomous research.

Enquiries related to the responsibilities can be obtained from Dr. Schneider (T: +493081041151, rudolf.schneider@bam.de) or Dr. Koch (T: +493081041170, matthias.koch@bam.de).

BAM is an equal opportunities employer. Applications from suitably qualified women are particularly welcome. Registered severely handicapped candidates demonstrating equally suitable qualifications will be given preferential consideration; they need to meet only minimum physical requirements.

Interested? Then we look forward to your application.

Applications via e-mail are preferred. Please send yours until **November 30, 2016** quoting **Reference No. 174/16-1.8** to: bewerbung@bam.de. Please attach to your e-mail pertinent documents in the **format of one PDF file**. The PDF shall not exceed **10 MB** and must include the following elements:

- Letter of motivation
- Tabulated Curriculum Vitae of your educational and professional career

Please provide proof of attained degrees via certificates that display the final grade and all relevant marks. For the stipulated professional experience as well as your current occupation we ask for qualified certificates of employment and testimonials/references, respectively. A publication list is to be included.

We point out that the transmitted application documents are exclusively stored and handled for the purpose of the selection process. After completion of the selection procedure the documents will be deleted respecting relevant data protection acts.