Job Vacancy 24
08.04.2020

We are looking for a

**Doctoral student (f/m/d) – GC-MS Food Metabolomics/Volatilomics**

**Job description**

Onions are a popular, widely consumed and health-promoting vegetable. The demand for organically grown onions is constantly increasing but supply is still insufficient. The hybrid varieties commonly used in conventional farming are not suitable for organic farming. In contrast, the many old European onion landraces form a rich genetic resource with interesting traits in view of a site-adapted use in organic farming. The aim of the ZwiebÖL project is a comprehensive exploration of the agronomic potential of the old European onion landraces for their use in organic farming.

Your area of responsibility in the Department of Safety and Quality of Fruit and Vegetables is the untargeted GC-MS- and GC×GC-MS-based analysis of volatile and non-volatile onion constituents within the scope of the ZwiebÖL project. The main task is the development and validation of a workflow for the profiling of volatile organic compounds, comprising an untargeted GC-MS method and an automated data processing pipeline (in cooperation with a bioinformatician). Further, the project includes the use of an untargeted GC×GC-MS method for the profiling of non-volatile onion constituents as well as GC×GC-HRMS experiments for the structural elucidation of unknowns. The results shall be presented at project meetings and scientific conferences and published in peer-reviewed journals. The supervision of bachelor and master theses is also expected.

**Mandatory requirements:**

- A completed Master degree or diploma in food chemistry or a related discipline
- Solid knowledge base in GC-MS analysis
- Sound experience with MS office programmes
- Excellent written and verbal communication skills in English

**Preferable are:**

- Practical experience with GC-MS, GC-HRMS or GC×GC-MS systems
- Basic knowledge in univariate and multivariate statistics
- Basic skills in German

Aside from independent and responsible working methods, as well as the ability for inter- and intra-disciplinary collaboration, a high degree of motivation, above-average personal commitment, flexibility, team spirit and a willingness to cooperate with colleagues and other institutions are also required.
**Our offer**

We are offering starting from 01.06.2020 a temporary part-time position (65 %) limited until 28.02.2023 at the Karlsruhe location of the Max Rubner-Institut. The weekly working hours are presently 25.4. The employment contract is subject to the regulations of the civil service collective wage agreement (TVöD-Bund). Payment of remuneration will be made according to pay grade 13 TVöD if personal and tariff requirements are fulfilled.

The Max Rubner-Institut is as a family-oriented employer and therefore welcomes applications of persons with family responsibilities. Flexible work hours and part-time models promote reconciliation of work and family life.

**Are you interested?**

If you are interested, please send your complete and compelling application, preferably by e-mail in one pdf file, in particular with motivational letter, curriculum vitae, complete description of vocational and professional career as well as copies of certificates (school, university and qualified job references) indicating **reference number 24** by **06.05.2020** to the central application unit of the Max Rubner-Institut at the Kiel location

**E-Mail: karriere@mri.bund.de**

Missing documents (particularly required certificates) can lead to the exclusion from the application process.

Please do not include original certificates with your written application, as application documents will not be returned to you.

**General information**

The job advertisement is primarily directed at applicants (f/m/d) who – in addition to employment - seek to obtain their doctorate. The Max Rubner-Institut cooperates with various universities in this context.

The Max Rubner-Institut strives for the professional equality of women and men.

The Max Rubner-Institut is committed to inclusion. Applications of persons with severe disabilities are therefore explicitly encouraged and will be given priority in the selection process.

With **foreign educational qualifications** we are asking you to send us supporting documentation regarding the classification into the German educational system. Please obtain further information on the website of the Central Office for Foreign Education (ZAB) [www.kmk.org/zab](http://www.kmk.org/zab).

Our homepage [www.mri.bund.de/de/karriere/stellenanzeigen](http://www.mri.bund.de/de/karriere/stellenanzeigen) offers information regarding the privacy policy of the staff appointment procedures of the Max Rubner-Institut.

**Organizational issues**

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**Scientific issues**

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