

## Job Announcement

The Grass and Forage Science/Organic Farming group of **The Plant Breeding Institute** of the Christian-Albrechts University of Kiel, Germany provides a dynamic research environment, with a strong focus on environmental aspects of forage production systems.

We invite applications for a

### Research assistant (PhD student position).

The position is part of the research project „Potential and limitations of plant polyphenols to reduce methane emissions from ruminants in grassland systems” and is a fixed term contract, initially scheduled until January 31st, 2022. Beginning of the PhD is **February 1st, 2019**.

The research project will investigate the influence of polyphenols from different herbs and legumes on methane emissions. Methane formation will be investigated in vitro using the Hohenheim gas test (HGT). In parallel, the polyphenols of all plants will be characterised using UPLC-MS/MS and the individual fractions will be purified. This enables an analysis of the total extract and the individual components in order to identify the efficacy of the individual molecules and potential matrix effects in the mixture.

The project comprises the following main tasks:

- Design and supervision of a greenhouse experiment for biomass generation in controlled environmental conditions
- Coordination and execution of laboratory analyses (HGT, UPLC-MS/MS, semi-preparative HPLC)
- Statistical evaluation of test results
- Preparation of reports and publications

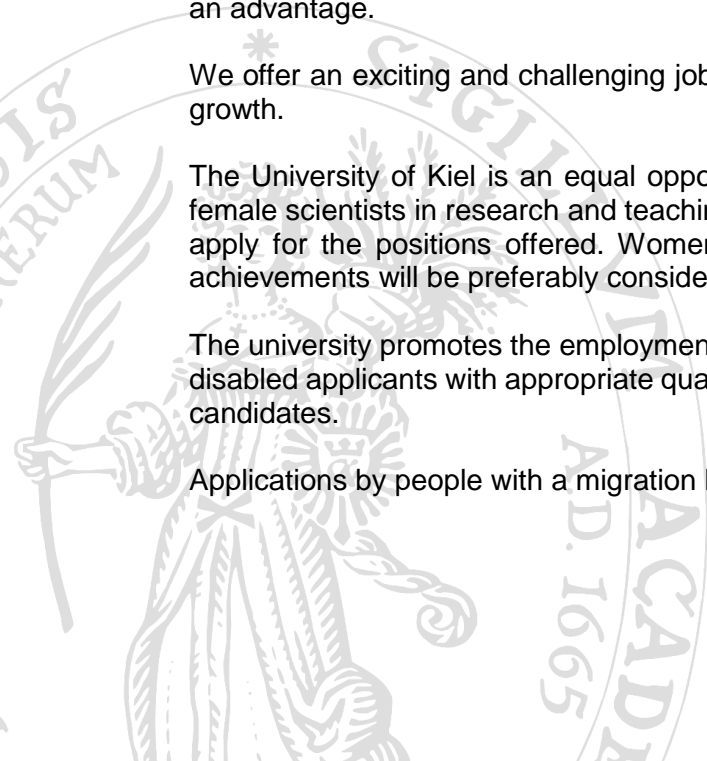
We are looking for an applicant with an above-average degree in agricultural or environmental sciences, biochemistry or a closely related field of study and a strong interest in familiarising themselves with the topic. A sound knowledge of IT (Office, ideally R) and a high proficiency in English are required, as well as independent, efficient work and the ability to work in a team. Experience in the analysis of bioactive plant constituents using LC-MS/MS technology is also an advantage.

We offer an exciting and challenging job with many possibilities for professional and personal growth.

The University of Kiel is an equal opportunity employer, aims at increasing the proportion of female scientists in research and teaching and thus strongly encourages all qualified women to apply for the positions offered. Women with equal qualification, capability and professional achievements will be preferably considered.

The university promotes the employment of severely handicapped persons. Therefore severely disabled applicants with appropriate qualification will be favoured when selecting the successful candidates.

Applications by people with a migration background are particularly welcomed.



Please send your written applications either digital or per mail **until January 4th 2019**, including the usual application documents (in German or English, please refrain from including an application picture) for the attention of the respective contact person to:

Dr. Carsten Malisch  
Institut für Pflanzenbau und Pflanzenzüchtung  
Abteilung Grünland und Futterbau/Ökologischer Landbau  
der Christian-Albrechts-Universität zu Kiel  
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email: [cmalisch@gfo.uni-kiel.de](mailto:cmalisch@gfo.uni-kiel.de)

For further information regarding the position, please contact Dr. Carsten Malisch (Tel.+49 431 880 2134).

