

The Institute of Process Engineering in Life Sciences, Section Food Process Engineering is inviting applications for a

Doctoral Research Assistant in Emulsification Technology

Your job

Within the field of emulsification technology, the successful candidate can either focus on the spray-drying of emulsions or on the investigation of physico-chemical aspects of emulsion stabilization. During spray-drying, the structural changes of the sprayed emulsion are of interest. In terms of emulsion stabilization, an innovative measurement technique will be developed that allows for the investigation of emulsifier interactions at the oil-water-interface and their influence on coalescence phenomena.

The successful candidate will report to the head of the Food Process Engineering Section, Prof. Dr.-Ing. Heike P. Schuchmann and to the relevant group leader. Project management and participation in university teaching are integral tasks of the position.

Your profile

You hold a university Diploma or M.Sc. degree in Chemical Engineering, Bioengineering, Process Engineering, Food Technology or a related field and have earned above-average grades. You are able to solve interdisciplinary scientific challenges in depth. This requires profound knowledge of relevant subjects in process engineering and physical chemistry. Ideally, you have knowledge of mechanical and process engineering, of fluid mechanics, of optical measurement techniques and of the physico-chemical properties of interfaces. Moreover, you are very much interested in applying this knowledge to topics in the Food and Life Sciences. You are an excellent team-player. Furthermore, you are highly motivated to participate in the education of future engineers. This requires proven oral and written language skills in both English and German. One of the two languages must be mastered at C1 level, the other one is required at B1 level.

Our offer

The institute offers an excellent infrastructure as well as help and support by a highly motivated team of young and talented scientists. The position is to be filled in the summer of 2017 and is initially limited to one year. After a successful evaluation, the contract will be extended to four years. The salary follows the payment level TV-L 13 (labor agreement for public service employees). Applications from women are particularly welcomed. In case of comparable suitability, aptitude and professional achievements, candidates with a severe disability will be given preference.

If you are interested to join our team, please send your application in an electronic format to **BLT-LVT-sekretariat@kit.edu** until April, 15th 2017. Alternatively, applications can be sent by mail to **Karlsruher Institut für Technologie (KIT), Institut für Bio- und Lebensmitteltechnik, Bereich I: Lebensmittelverfahrenstechnik, Frau Tanja Baumgärtner, Kaiserstr. 12, 76131 Karlsruhe**. Subject-specific requests will be answered by Dr. Gaukel (0049/721/608-43612) or Dr. van der Schaaf (0049/721/608-43609).

