

Your IDP in Nutrition Science

We, the Chair of Nutrition Physiology at the TUM School of Life Sciences Weihenstephan, are looking for an IT-student with an interest for the area of Public Health Nutrition who will help us with the migration of a nutrition related online tool. We are looking for a suitable candidate who can start his or her Interdisciplinary Project in our team as soon as possible.

- **Background**

The research team Public Health Nutrition has been a partner in the *Quisper* project („Quality Information Services and Dietary Advice for Personalized Nutrition in Europe“) of the European Innovation and Technology Institute EIT Food since January 2018. The goal of *Quisper* is to establish a digital platform for scientifically sound services in the area of personalized nutrition. As part of that project we want to test the nutrition online tool *eNutri* on a German population. The aim is to examine whether automated personalized food-based online advice via this tool is more effective in improving the dietary habits of the user than generalized population based recommendations. The personalized recommendations that are provided by the tool are based on the user's input concerning his or her dietary habits (Food Frequency Questionnaire, FFQ), which is evaluated by the tool.

- **Your task**

You will be migrating the web application *eNutri*, which was created, tested and evaluated by the University of Reading to a TUM server. *eNutri* is a Single Page Application (SPA) using AngularJS and Google Firebase. The tool is based on open source code and shall be linked with updated pictures and a food composition table. Minor modifications shall be made on the original application (e.g. adjustment of the questions to an improved FFQ). Moreover, personalized recommendations that are based on the nutrition data of the user shall be given out as a report automatically after completing the FFQ. Since the app is to be tested in Germany, the content shall be changed to German language.

Feel free to contact us for further information.

- **Contact information**

Alexandra Ganzha, M.Sc.
Chair of Nutrition Physiology
TUM School of Life Sciences
Email: alexandra.ganzha@tum.de, Tel.: 08161 71 2323

- **Literature and references**

Previous studies with eNutri:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6086444/> (doi: 10.1371/journal.pone.0202006)

<https://www.ncbi.nlm.nih.gov/pubmed/30943252> (doi: 10.1371/journal.pone.0214931)

Formative study with the tool:

<https://www.ncbi.nlm.nih.gov/pubmed/30096211> (doi: 10.1371/journal.pone.0202006)