



MOBILITY & PRODUCTION

Fields of Expertise TU Graz

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Stefan Hausberger

Source: Lunghammer – TU Graz

Artificial intelligence, new manufacturing technologies, the switch to sustainable energy concepts, increasingly sophisticated measurement methods and global value creation networks characterise today's world and also have a decisive impact on the areas of mobility and production.

In order to be optimally equipped for these future challenges, excellent and future-orientated research activities and the corresponding training of the next generation of engineers are an essential basis.

This also requires a sufficient number of long-term academic staff who have the ability to coordinate, steer and motivate international research projects and the people working on them, and also to communicate the new insights gained in the process to our students in an understandable way, together with the necessary basic principles. Long-term employees are an essential requirement in order

to maintain and continuously expand the knowledge and skills achieved by the research groups.

The tenure track positions at TU Graz offer precisely this opportunity to integrate highly qualified scientists into research and teaching at TU Graz on a long-term basis. International calls for applications reach outstanding scientists who then may complete a comprehensive qualification programme at TU Graz before being taken on permanently as associate professors after around five years. In addition to independent teaching, the establishment of a research group and the acquisition of projects, a longer stay at foreign research institutions and a larger number of high-ranking publications are usually required. Also, a habilitation thesis must be written at the end of the programme. Although fulfilment of the qualification agreement is challenging, it opens up the opportunity to implement your own ideas and new methods in research and to strengthen and expand existing ones.

With tenure track positions, TU Graz offers young talented persons a clear academic development path. In the global competition for the brightest minds, such a long-term commitment is presumed to be an important factor, even in our fast-moving times – especially in the field of research and development – where a solid education and long experience in the field of research are an essential foundation for success.

The tenure track positions advertised and filled this year in the area of FoE Mobility & Production will significantly strengthen expertise in current environmental topics at TU Graz. Markus Knoll was selected as the most suitable candidate in the recently concluded selection procedure for the tenure track position "Measurement of traffic-related emissions". He will take up his position at the Institute of Electrical Measurement and Sensor Systems and will focus specifically on conducting research into and recording particulate emissions from tyre, road and brake abrasion (non-exhaust emissions). With these activities, he will also strengthen our TU Graz Lead Project NExT (Non-Exhaust Topics). You can read more about this and other exciting topics that Markus Knoll will be developing at the institute in his article in this issue.

We wish him all the best, every success in his new position and enthusiasm in his work, and we look forward to an exciting collaboration.