

Professor (W3) for Materials Technology at the Ruhr-University Bochum

Ruhr-Universität Bochum (RUB) is one of Germany's leading research universities. It draws its strengths from both the diversity and the proximity of natural science and engineering disciplines on a single, coherent campus. This highly dynamic setting enables students and researchers to work across traditional boundaries of academic subjects and faculties.

The Faculty of Mechanical Engineering at the Ruhr-Universität Bochum invites applications for the position of a

Professor (W3) for Materials Technology

to be filled on **October 1st, 2019**.

The candidate is expected to represent the field of Materials Technology in research and in teaching (most lectures: in German). She/he contributes basic introductory courses (for all mechanical engineering students: bachelor level) as well as advanced lectures directed towards students with *Engineering Materials and Micro Technology* as a major field of studies (bachelor and master levels). The basic courses cover engineering materials, materials processing and lectures about iron-based materials and welding technology. The advanced lectures should address new methods and technologies as well as cutting edge topics in materials processing and material behavior under complex mechanical loading conditions.

Research should focus on the design and improvement of metallic materials, considering property and processing aspects. Ingot and powder metallurgy of metallic, e.g. high alloyed steels and cast alloys, as well as their heat treatment are of interest. Special emphasis is placed on mechanical, chemical and thermal characterization methods for engineering materials. We expect a proven research track record in experimental materials technology and familiarity with the application of advanced material modelling tools for materials design and component life assessment.

We seek candidates with a proven Materials Technology research track record. We encourage applications from industry and academia. The field of Materials Science and Technology is one of the key research areas at RUB. Therefore, the candidate is expected to interact with the scientists of RUB's Materials Research Department (MRD), especially with scientists from ICAMS (Interdisciplinary Centre for Advanced Materials Simulation) and within the framework of the new Centre for Interface Dominated High Performance Materials (German abbreviation: ZGH). The proven ability to attract research grants from national and international agencies like DFG, BMBF or EC and from private sponsors (industry) and the willingness to initiate and cooperate within collaborative research projects at RUB and its neighbor universities are expected. We are looking for scholars who provide inspiration, leadership, and impact in research and teaching.

Equality of opportunity and diversity are declared goals of RUB and the promotion of women in science is one of the core strategic aims at RUB. We aim at strengthening the role of women in areas where they are still underrepresented and therefore applications from female scientists are welcome. Qualified individuals with disabilities will also be favored. Applications from abroad are explicitly welcome.

Applications from positively evaluated junior professors, scientists with habilitations and/or equivalent scientific accomplishments are welcome. We pay special attention to high quality teaching. Moreover, the willingness to participate in academic administration is important. Interested applicants should submit their applications by **January 7th 2019**. Applications should include a cover letter, degree certificates and references, a description of the scientific development, a list of publications, a 5-page concept for research and teaching, and a list of successfully attracted research funds). Please send applications to the chairman of the search committee: Prof. Dr.-Ing. Gunther Eggeler, Institut für Werkstoffe, Ruhr-Universität Bochum, Universitätsstr. 150, D-44801 Bochum, Germany.

October 11th, 2018, Prof. Dr-Ing. Gunther Eggeler, Head of Search Committee