

**Full Professor (W2)
in "Fundamentals of Solidification"**

Joint appointment procedure of the Faculty of Georesources and Materials Engineering at the RWTH Aachen University and the German Aerospace Center e.V. (DLR).

The prospective incumbent will be appointed as a University Professor at the RWTH Aachen University and given leave of absence in order to assume the position of

Head of the Research Field "Solidification"

at the Institute of Materials Physics in Space of the DLR in Cologne.

We are seeking qualified applicants for teaching and research in the area of the solidification of multi-component alloys. The starting date is at the earliest possible date. Recognized specific expertise in the field of the solidification of multi-component alloys focusing on the influence of convective and diffusional mass transport on the formation of microstructures during solidification is particularly welcome. The research which the incumbent will supervise should, in particular, advance the application of in-situ methods (e.g. radiography and tomography) for depicting solidification processes as well as promote the design and implementation of experimental techniques under microgravity conditions.

It is also expected that the successful appointee demonstrates a willingness to closely collaborate in other main research areas of the DLR's Institute for Materials Physics in Space, with both the RWTH's Foundry Institute and Division of Metallurgy and Materials Engineering as well as to actively participate in national and international joint projects. The incumbent should therefore possess his/her own experience in successfully procuring and implementing third party funded projects. Experience in initiating and performing experiments in micro-gravity would be an advantage.

A Ph.D. degree is required; additionally, Habilitation (post-doctoral lecturing qualification), an exemplary record of research achievement as an assistant / an associate / a junior professor or university researcher and/or an outstanding career outside academia are highly desirable. Ability in and commitment to teaching are essential. German is not necessary to begin but will be expected as a teaching language within the first 5 years. The teaching consists of lectures and tutorial courses of 2 hours per semester week at the RWTH Aachen University as well as the supervision of Bachelor, Master and Doctoral work at the Institute of Materials Physics in Space. The application should include supporting documents regarding success in teaching.

Please send a cover letter stating your research aims and a CV to: DLR Vorstand für Raumfahrtforschung und -technologie, Herrn Prof. Dr. Hansjörg Dittus, Linder Höhe, 51147 Köln, Germany.

The deadline for applications is November 1st, 2012. RWTH Aachen University particularly welcome and encourage applications from women, disabled people and ethnic minority groups, recognizing they are underrepresented across RWTH Aachen University. The principles of fair and open competition apply and appointments will be made on merit.