The Collaborative Research Center “Farbige Zustände” (SFB 1232) and the Department Process & Chemical Engineering (FB04 / FG01) at the University of Bremen invite applications for the following academic position - under the condition of job release -

**M.Sc. or Post-Doc / Research Associate**

Reference number: A81/18

Salary level 13 TV-L (100%), start date will be determined on short notice. The position is a fixed term position until June 30, 2020.

In the field of “Thermal processing and phase field modelling of metals processing, solidification and heat treatment processes”.

A group of internationally renowned researchers together with excellent funding provides unique opportunities to develop your career in a vibrant scientific environment. The exceptional research idea of SFB1232 is the development of a novel interdisciplinary high-throughput method for the experimental exploration of structural materials. Within this challenging and interdisciplinary research field, the offered position covers the following subtopics:

- Thermal process analysis of cooling strategies in solidification and forming of metals
- Thermal, flow and phase field modelling of solidification and heat treatment processes
- Droplet and particle analysis in spray processes
- Process development for heat transfer and thermal management in metal and metallurgical processes

We invite highly motivated and outstanding early career researchers (M.Sc. / Dipl. Ing.) or postdocs (Dr.-Ing. / Dr. rer. nat.) with a sound background in process engineering, materials science and related areas to apply. Required qualifications are:

- Candidates should have a few years of research experience and/or a PhD degree in materials science/technology and mechanical/process engineering or physics.
- A depth knowledge of metals processing, solidification and heat treatment of metals is required.
- The successful candidate is expected to have an excellent academic record and is curious with the ability to work in a team and independently.
- Excellent written and oral communication in English and German communication skills are necessary.
The University of Bremen intends to increase the proportion of female employees in engineering and sciences; therefore, women are particularly encouraged to apply. In case of equal personal aptitudes and qualification, disabled persons will be preferentially considered. The University of Bremen explicitly invites international applications and persons with migration background to apply.

Applications including a cover letter, CV, publication list, copies of degree certificates, a statement of research interest and the names of two referees should be submitted under the reference number A 81/18 to

University of Bremen
Prof. Dr.-Ing. habil. Udo Fritsching
Particle and Process Engineering
Faculty of Production Engineering
Postfach 33 04 40
28334 Bremen

or by email (including up to two PDF files; reference number) to: mvt@uni-bremen.de

Inquiries may be sent electronically to Prof. Dr.-Ing. habil. Udo Fritsching / University Bremen at: ufri@iwt.uni-bremen.de.