



The Cluster of Excellence

Smart Interfaces - Understanding and Designing Fluid Boundaries

at the Technische Universität Darmstadt invites applications for several full-time, tenured faculty positions. This Cluster of Excellence has been recently founded at the Technische Universität Darmstadt as part of the Excellence Initiative of the federal government of Germany. It combines research on fluid boundaries from the Departments of Chemistry, Physics, Materials Science, Mathematics and Mechanical Engineering as well as several external research institutions.

Several W2/W3-Professorships

for Hydrodynamics of Interfaces, Thermofluidics of Multiphase Systems, Flow Manipulation and Control

(Ref. No. 21)

affiliated with the Department of Mechanical Engineering.

Expertise is sought in one or more of the areas: hydrodynamics of interfaces (especially wetting phenomena), thermofluidics of enhanced heat transfer, multiphase systems (especially microfluidic reactors) or flow control (with emphasis on drag and circulation control). A research approach is favoured which integrates experimental with numerical and/or theoretical studies, utilizing modern diagnostic techniques such as laser based measurement techniques (e.g. PIV, LDV, PDA, LIF) and finite volume/element simulations (e.g. RANS, DES, LES, DNS, VOF, FSI).

The candidates will be expected to offer lectures on key topics of the Cluster at the Department of Mechanical Engineering, after 2 years also in German. For information regarding this position, you are invited to contact the Director of the Center of Smart Interfaces, Prof. Dr.-Ing. Cameron Tropea, +49-6151-16 28 54, ctropea@sla.tu-darmstadt.de.

The successful candidates

- have developed an internationally visible research profile.
- have shown his/her ability to actively drive collaborations and pursue them across boundaries between traditional disciplines and between academia and industry.
- are committed to establishing a vigorous research program in close collaboration with the Principle Investigators of the Center of Smart Interfaces and with other departments at the TU Darmstadt.
- are experienced and successful in supervising graduate students and post-docs.

The position is tenured with a remuneration package commensurate with experience and qualifications, following the German "W-Besoldung" category. The regulations for employment are specified under §§ 70 and 71 HHG (Hessisches Hochschulgesetz).

Candidates who hold a public servant status (Beamtenverhältnis) can be reappointed under the same status.

The Technische Universität Darmstadt is an equal opportunity employer. The TU Darmstadt has the goal to enhance the percentage of women where they are underrepresented. Women, therefore, are especially encouraged to apply. Eligible disabled persons will be given priority.

Further information about the Center of Smart Interfaces can be found at www.csi.tu-darmstadt.de.

Interested candidates should submit a curriculum vitae, a statement of research plan, a list of previously taught courses, a list of past and present research grants/projects and contact information for two references to:

Electronic submissions are welcome.

Center of Smart Interfaces

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