



TU Braunschweig | Institut für Strömungsmechanik  
Herman-Blenk-Str. 37 | 38108 Braunschweig | Deutschland

### Humboldt Research Fellowship for Postdoctoral Researchers<sup>1</sup> (Application at any time)

Together with the Research Group “Multiphase Flow and Icing” at the Institute of Fluid Mechanics, you are invited to apply for a Humboldt research fellowship sponsored by the Humboldt Foundation in order to carry out a long-term research project (6-24 months).

The following **research subjects** can be supported by our group:

- experiments and direct numerical simulations of droplet impingement
- the “Optical Flow” measurement technique
- aircraft icing
- optical measurements of particle size and velocity in multiphase flows
- uncertainty quantification of measurements and flow computations

#### Prerequisites:

- meet the personal selection criteria of the Humboldt Foundation, which can be found on <http://www.humboldt-foundation.de>
- an excellent degree during your science/engineering studies
- a doctorate degree (with distinction) with relevant peer-reviewed publications in the field of fluid mechanics
- a strong focus on results
- a high degree of initiative and the ability to work well in teams
- good language skills in English

#### Please keep in mind that:

- The Humboldt Foundation will evaluate the submitted proposal and further negotiate within a period of about 9 months.
- Writing an excellent proposal is a challenging and time-consuming task.
- As usual for prestigious international fellowships, there is much competition. The chance to be positively selected by the Humboldt-Foundation is lower than 20%.

In order to be considered as applicant for the Humboldt Research Fellowship for Postdoctoral Researchers with TU Braunschweig as host institution, please send the usual application documents to

Dr. Stephan Bansmer  
Institut für Strömungsmechanik der TU Braunschweig  
Herman-Blenk-Str. 37, 38108 Braunschweig  
eMail: [s.bansmer@tu-braunschweig.de](mailto:s.bansmer@tu-braunschweig.de)

including two letters of recommendation.

For further questions, please not hesitate to contact us. Mail us or give us a call: +49 531 391 94231.

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<sup>1</sup> Experienced researchers must be in possession of a doctoral degree. Further selection criteria of the Humboldt Foundation, you'll find on <http://www.humboldt-foundation.de>

As a part of the “Campus Research Airport” we commit to the following

**Mission Statement:**

We are a leading aerospace research center in Germany, providing top level research and education. We create leading innovations in aerospace.

Scientific excellence and professionalism guide us in all that we do. Our research helps satisfy society’s need for mobility – both today and in the future. We focus on environmental sustainability, safety, and efficiency.

We direct the results of our research toward industry, science, and society. Our education is aimed at highly qualified engineers who are enthusiastic about aerospace.

Joining together the broad areas of expertise from the TU Braunschweig and the German Aerospace Center gives us a particular appeal, along with international visibility.

Together we have all the skills needed to create technical innovations for aircraft and air transportation. These we develop with a holistic view toward of the system.

We offer the complete spectrum, from basic research to application-based technical development and testing. The results keep our education and training on the cutting edge.

The Campus Research Airport is building on an 80-year tradition of aeronautical research and flight testing in Braunschweig. We have an infrastructure that is unique internationally, with research aircraft, wind tunnels, simulators, and test facilities. Award-winning scientists and motivated students ensure top-level research.