



**Deutsches Zentrum  
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# DAAD

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## **DLR – DAAD – Fellowships**

### **Fellowship - No. 24**

<b>Research Area :</b>	Aeronautics
<b>Research Topic:</b>	Experimental investigation of wake vortex instabilities behind aircraft by means of Particle Image Velocimetry
<b>DLR Institute:</b>	Institute of Aerodynamics and Flow Technology DLR AS-EV, Göttingen
<b>Position:</b>	Postdoctoral Fellow
<b>Openings:</b>	1
<b>Job Specification:</b>	The successful applicant will work in a team investigating wake vortices in the far field of an aircraft model towed through a water tank. The topics of the study are the development of cooperative vortex instabilities in a turbulent field (deflections of vortex lines, forming of ring-like vortex structures) and the development and decay of wake vortices in ground proximity. Modern measurement techniques such as the tomographic Particle Image Velocimetry system for volumetric flow velocity measurements will be applied and adapted for large measurement volumes. Depending on his skills he will participate or lead experiments, image evaluations and data analyses.
<b>Required Qualification:</b>	The candidate should have a Ph.D. degree in a relevant area of Engineering or Physics; i.e. in the field of experimental fluid dynamics.
<b>Advantageous Skills:</b>	Experiences in the application of image based measurements techniques such as the Particle Image Velocimetry technique as well as skills in programming languages will be helpful.
<b>English competence:</b>	Good (spoken and written)
<b>Earliest Start Date:</b>	depending on agreement
<b>Application Deadline:</b>	<b>until position filled</b>
<b>Further Information:</b>	<a href="http://www.dlr.de/as/">www.dlr.de/as/</a> <a href="http://www.daad.de/dlr">www.daad.de/dlr</a>