

Guest Programme

Max Planck Institute for
Dynamics and Self-Organization
Göttingen



MAX-PLANCK-GESELLSCHAFT

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What we want

No matter how well we understand how a single droplet of water is formed in the laboratory, we cannot predict how countless droplets form clouds that substantially affect the Earth's climate. And although we can accurately characterize a single neuron's impulse, we do not yet understand how billions of them form a single thought. In such systems, animate or inanimate, processes of self-organization are at work: Many interacting parts organize themselves independently, without external control, into a complex whole. At our institute we explore the mechanisms underlying these processes in order to gain a detailed understanding of complex systems. Also the major challenges of the 21st century, from climate change and economic crises to problems in energy supply and transport, are closely linked to these scientific questions. Without a deep understanding of dynamics and self-organization in complex and highly networked systems we cannot face these challenges. With our basic research, not only do we want to deepen our understanding of nature, but also want to contribute to a sustainable existence on this planet.

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I. The idea

The Max Planck Institute for Dynamics and Self-Organization offers scientists from home and abroad the opportunity to conduct research at the Institute as guests. Visiting scientists may conduct their own research projects with us. They have access to the outstanding infrastructure of our Institute and exchange ideas and collaborate with the international colleagues at the Institute. To encourage such exchanges and to promote international collaborations and networking visiting scientists are integrated into the Institute's research operation.

Visiting scientists of our Institute are supported by external funding (third party funds) or through a Max Planck Fellowship (Max Planck Society Scholarship, MPGS). This Guest Programme also forms the basis for awarding MPG scholarships to visiting scientists. With its decision making body it ensures that only the best scientists from abroad receive a MPG Scholarship.

Participants in our Guest Programme are provided an excellent work environment at the Institute and receive support in all matters of daily life and scientific concerns. Our guests are also very welcome to play an active role in the academic and social life of the Institute.

II. International collaboration and networks

The Guest Programme constitutes an integral part of the centres and international research programmes at the Institute, in particular: Scientific Meeting Center (WBZ), International Collaboration for Turbulence Research (ICTR), Focus on Complex Fluid Dynamics, and the Max Planck Centre for Complex Fluid Dynamics, Twente. We also work with selected institutions and funding bodies, e.g. DAAD (German Academic Exchange Service), the Alexander von Humboldt Foundation, the Human Frontiers Foundation, etc.

III. Funding opportunities

If you do not have your own financing or external funding, there is an opportunity to receive funding through a Max Planck Society Scholarship. The maximum funding period is 6 months. During this period, our guests have full access to all scientific facilities and associated support to enable them to advance their own projects. Our Scientific Meeting Center (WBZ) in the Bunsenstraße is available for scientific exchange with communication rooms with appropriate equipment (blackboards, conference technology)

1. Specific opportunities for doctoral students

Doctoral students can receive funding for up to six months through an MPG scholarship. With this measure, we deliberately want to give junior scientists the chance to exchange ideas and build networks in a unique international environment at an early stage of their training. The residency can also be conducted in the company of an established scientist also participating in the Guest Programme.

2. Specific opportunities for Postdocs

In principle, we support postdoctoral students with a TVöD contract. We also support postdoctoral students with an MPG scholarship for a period of up to six months in order to promote young academics and further scientific education. The scholarship holders must already be qualified for independent scientific work. The focus of their life must have been abroad before the start of the scholarship. The doctorate must not have been awarded more than ten years ago.

IV. The Scholarship Committee

The scholarship commission is called after a planned scholarship has been reviewed by the personnel department. All members of the scholarship commis-

sion must be participated. It selects the scholars according to the multi-eye principle. The number of scholarships awarded in the guest programme is strictly limited.

The Committee consists of:

1 Director

1 Representative of MPRGs, Research Group Leaders or Postdocs

1 Doctoral student representative

V. Applications

If you are working on a research project that fits with the Institute's portfolio and our vision, and if you are interested in our Guest Programme, please send us an email to guest@ds.mpg.de.

You can find further details on subjects including "Living and working in Germany" on the following link:

<http://www.ds.mpg.de/3073445/applicants>

If you are interested in obtaining your doctorate at our Institute, you will find information on our graduate programmes here:

GGNB: <http://www.uni-goettingen.de/en/sh/56640.html>

IMPRS Physics of Biological and Complex Systems:

<http://www.uni-goettingen.de/en/58718.html>

Göttingen, 10.10.2018

Prof. Dr. Dr. h.c. Eberhard Bodenschatz
Managing Director