



The **Helmholtz Space Life Sciences Research School (SpaceLife)** at the German Aerospace Center, Institute of Aerospace Medicine, funded by the German Helmholtz Association, offers

**13 PhD Scholarships (M/F) in Space Life Sciences  
for 3 years**

**Application Deadline:** 31.03.2009

**Start Date:** April – October 2009

#### Research Area

Applied Physiology, Nutrition and Sports Sciences, Psychology, Molecular Cell Biology, and Radiation Physics

#### Job Specification

The Helmholtz Space Life Sciences Research School (SpaceLife) offers a comprehensive and interdisciplinary training for doctoral students from different fields. In each generation, up to 25 students from any country can participate in the three-year program. Project language is English.

The scientific training is provided in cooperation with several **German universities (Aachen, Berlin, Bonn, Kiel, DSHS Köln, Magdeburg, Regensburg)** in a superb and vibrant research environment with state of the art facilities and cutting edge research projects. Students will learn to develop integrated concepts to solve health issues in human spaceflight and in related disease patterns on Earth, and to further explore the requirements for life in extreme environments, enabling a better understanding of the ecosystem Earth and the search for life on other planets in unmanned and manned missions.

Prospective students can choose one out of more than 13 challenging research projects offered by our faculty members.

Although students specialize in a particular research topic (**Radiobiology, Gravitational Biology, Astrobiology, Space Physiology**), the interdisciplinary context of the program facilitates interactions with other research groups and fosters the ability of cross-frontier thinking. Laboratory work is supplemented by lectures, a students' workshop, journal clubs, elective courses, soft skills training, exchanges with partner universities or partner organizations, and participation in national or international conferences.

For further information and for application, please refer to

<http://www.dlr.de/me/SpaceLife>

#### We offer

- a PhD scholarship paid according to the rules of the German Research Foundation (DFG)
- a top-level research environment
- a periodic research report system
- efficient supervision by a team of two supervisors and a mentor
- an interdisciplinary training program
- intensive courses in soft skills
- stays at labs at the partner institutions or abroad
- Cologne – a lively city with a vibrant cultural scene, successful scientific center of innovation and dynamic business activities

#### We expect

- study in any Life Science or Physics related to the research topics (**e.g. biology, human biology, biochemistry, biotechnology, microbiology, physics, chemistry, psychology, veterinary medicine and nutrition or sports sciences**) finished with high marks and a Diploma or Master degree that qualifies for starting a PhD study in Germany. Candidates who are about to earn their degree are welcome to apply.
- fluently spoken and written English is essential
- basic laboratory experience / clinical study experience (dependent on research topic)
- strong interest in Space Life Sciences
- high motivation and dedication for scientific working
- ability to work creatively in a multidisciplinary team
- knowledge of standard word processing and spreadsheet software

#### It is advantageous to have...

- experience with database management and statistical software
- ability using biomedical literature databases
- basic knowledge in German for daily life in Germany



**Deutsches Zentrum  
für Luft- und Raumfahrt e.V.**  
in der Helmholtz-Gemeinschaft  
**German Aerospace Center**