

Bayer: Science For A Better Life

# BAYER FOUNDATIONS FELLOWSHIP PROGRAM



Veterinary student in action.



Bayer Science & Education  
Foundation

# PIONEERS IN SCIENCE & SOCIETY COMMITMENT TO PROGRESS



## Bayer Foundations – commitment to progress since 1897

For innovation company Bayer, pioneering achievements in science and society are fundamental to progress and success. For that reason, frontier research, talent education and social innovation is also a key objective of the Bayer Foundations.

### Our focus is on pioneers who advance society with new ideas and groundbreaking discoveries.

The support programs of the **Bayer Science & Education Foundation** are a central element of this innovation strategy:

- With the **Science@School program** the foundation promotes STEM education projects that carry the spirit of invention into the classroom and make young people passionate about life sciences, technology and medicine.
- With the **Bayer Fellowship program** the foundation enables talents to undertake international study and research projects in life science and medicine.
- With its **Science Awards** the foundation promotes future leaders in science and honors extraordinary research achievements in the fields of life sciences, chemistry and medicine.

Alongside with the scientific programs, the **Bayer Cares Foundation** supports innovative solutions in public health and entrepreneurs' who close gaps in society through voluntary work. In addition, the foundation is engaged in reconstruction projects following natural disasters, especially in the area of health care provision.

More information at:

[www.bayer-foundations.com](http://www.bayer-foundations.com)

# INSPIRING KNOWLEDGE ENCOURAGING TALENTS



Benjamin Buick, student of biophysical chemistry, gained valuable experience through his scholarship from the Bayer foundation for an internship at the Tor Vergata University of Rome, Italy.

## Bayer Fellowship program – support talents to grow

The Bayer fellowship program supports extraordinary gifted talents in order to help them realize individual study and research projects abroad.

### Scholarships for individual applications:

- Otto Bayer Scholarship: natural sciences
- Carl Duisberg Scholarship: medicine
- Jeff Schell Scholarship: agro sciences
- Kurt Hansen Scholarship: science teachers
- Hermann Strenger Scholarship: apprentices

Scholarships are granted exclusively to students from German-speaking countries wishing to study abroad, or to foreign students who are interested in a study project in Germany.

### Scholarships with nomination by scientific partners only:

- Humboldt-Bayer Research Fellowship: postdocs in life sciences
- Bayer Lindau Fellows at the Lindau Nobel Laureate Meeting
- Bayer Young Physician Leaders at World Health Summit
- Bayer-Deutschlandstipendien
- Christiane Nüsslein-Volhard Scholarship: graduated young mothers in science and medicine
- Bayer Science Teens: school students



### Otto Bayer Scholarship

The Otto Bayer Scholarship is open to students of:

- Biology and molecular biology
- Biotechnology, bioengineering and bioinformatics
- Chemistry and biochemistry
- Pharmaceuticals and drug discovery

Applicants should demonstrate a pioneering spirit for science and society, above-average study grades, a high level of motivation and a compelling individual project idea.

The scholarship can be used for special study courses, individual laboratory assignments, summer schools, research classes, internships, or Master's or PhD theses.

Note: Scholarships are granted exclusively to students from German-speaking countries wishing to study abroad, or to foreign students who are interested in a study project in Germany. This program is not open to postdoc students.

### *The benefactor Otto Bayer*

*Professor Otto Bayer joined the company in 1933, when he became head of the Central Scientific Laboratory. Although Otto Bayer was only 32 years old at the time, and the youngest member of the team, he soon succeeded in making a name for himself: his greatest achievement was ultimately the invention of polyurethane chemistry. He influenced the development of this versatile family of plastics for many years until his death at the age of nearly 80.*



Biochemistry student Sonja Tattermusch received an Otto Bayer Scholarship for a research semester at the Pasteur Institute in Paris, France.



### Carl Duisberg Scholarship

The Carl Duisberg Scholarship is open to students of:

- Human medicine
- Veterinary medicine
- Medical sciences, medical engineering
- Public health

Applicants should demonstrate a pioneering spirit for medical excellence, clinical progress or public health, above-average study grades, a high level of motivation and a compelling individual project idea.

The scholarship can be used for clinical training, internship as a visiting physician, laboratory research, clinical studies or PhD projects.

Note: Scholarships are granted exclusively to students from German-speaking countries wishing to study abroad, or to foreign students who are interested in a study project in Germany.

### *The benefactor Dr. Carl Duisberg*

*Dr. Carl Duisberg is one of the central figures in the history of Bayer and the chemical industry as a whole. Serving for many years as the Director General of Bayer, his influence on nearly all developments in the various parts of the company was instrumental in the company's progress on the road to becoming a world-leading industry. Carl Duisberg is also remembered for his outstanding social achievements. He is still today regarded as the prototype of a "sustainable-thinking" industrialist whose self-ethic was determined by an obligation toward society.*



Medical students Frauke Schaffrath and Lars Roeddiger from Freiburg University gained valuable experience as visiting physicians at the St. George's University in Grenada, Spain, thanks to a Carl Duisberg Scholarship.



### Jeff Schell Scholarship

The Jeff Schell Scholarship is open to students of:

- Agricultural sciences and agronomy
- Crop protection, seeds and green biotechnology
- Environmental sciences and agricultural sustainability

Applicants should demonstrate a pioneering spirit for science and society, above-average study grades, a high level of motivation and a compelling individual project idea aimed at developing new agricultural solutions to help provide ample, nutritious and safe food for a growing world population as well as a high level of motivation.

The scholarship can be used for special study courses, individual laboratory assignments, summer schools, research classes, internships, or Master's or PhD theses.

Note: Scholarships are granted exclusively to students from German-speaking countries wishing to study abroad, or to foreign students who are interested in a study project in Germany. This program is not open to postdoc students.

### *The name patron Jozef Stefaan Schell*

*Prof. Jozef Stefaan Schell, who was Director and Head of the Max Planck Institute for Plant Breeding Research at the Max-Planck-Gesellschaft in Cologne, was a pioneer in plant genetics with focus on the interaction between plants and soil bacteria. He was co-founder of the biotech company Plant Genetic Systems, located in Ghent, Belgium, which became part of Bayer CropScience in 2002 and is best known for innovation in insect-resistant transgenic plants. Schell won the Otto Bayer Award in 1985 in honor of his outstanding achievements in the field of plant genetics.*



The Jeff Schell Scholarship enables Anna Zimmermann to gain valuable experience in green biotechnology at the University of Lisbon (NOVA), Portugal.



### Kurt Hansen Scholarship

The Kurt Hansen Scholarship supports students who want to become

#### ■ Science teachers (STEM)

Applicants should demonstrate a pioneering spirit for science teaching and education, above-average study grades, a high level of motivation and a compelling individual project idea.

The scholarship can be used for special study courses, individual teaching assignments, summer schools, research classes, internships, Master's or PhD theses or special projects in STEM education, including training-on-the job.

Note: Scholarships are granted exclusively to students from German-speaking countries wishing to study abroad, or to foreign students who are interested in a study project in Germany. This program is not open to postdoc students.

### *The benefactor Kurt Hansen*

*Professor Kurt Hansen, who served as Chairman of the Board of Management of Bayer AG from 1962 to 1974, was the driving force behind a large expansion of Bayer's international position, particularly outside Europe. For the natural scientist and certified management assistant, support for research in the fields of science and medicine was of central importance for the long-term success of the company.*



Peter Nelle, future teacher of chemistry and biology at the Albert Schweitzer High School in Marl, received a Kurt Hansen Scholarship to fund a period of study at the Queens University in Belfast, Northern Ireland.



### Hermann Strenger Scholarship

The Hermann Strenger Scholarship promotes international work experience for

- Talents with a non-academic background

Applications are welcome from trainees, apprentices and young professionals who wish to gain work experience abroad, e. g. through on-the-job assignments, internships or training courses.

The following non-academic disciplines are particularly in focus:

- Technical professions
- Science-related work fields (e.g. lab assistants)
- Health sector, healthcare professionals
- Business administration, assistants

Note: Scholarships are granted exclusively to apprentices or young professionals from German-speaking countries who wish to work abroad, or to foreign apprentices or young professionals who are interested in a project assignment in Germany.

### The benefactor Hermann-Josef Strenger

*Hermann-Josef Strenger began his career at Bayer as a commercial trainee in 1949 and worked all his way up into top management. In 1984 he took over from Dr. Herbert Grünewald as Chairman of the Board of Management. Bayer's positive business development during Strenger's tenure as Chairman was associated with a broadly based environmental protection program. He introduced a corporate philosophy in which ecology and economy were declared to be corporate objectives of equal importance.*



Medical innovation: Hermann Strenger Scholarship holders Sarah Zipse and Sebnem Aykut (left to right) during their "quality assurance" project in the Vien Nhi National Hospital of Pediatrics in Hanoi, Vietnam



### Humboldt-Bayer Research Fellowship

The Humboldt-Bayer Research Fellowship is a collaboration between academia and industry with the intention of opening up new exchange opportunities for the upcoming world elite in science.

Every year, the Bayer Science & Education Foundation awards research grants to 10 post-doctoral scientists. The idea of this initiative is to support upcoming top scientists from abroad in carrying out research activities in Germany. As an additional benefit, the Bayer Fellows are mentored by senior Bayer scientists.

### Bayer Lindau Fellows

The Lindau Nobel Laureate Meeting is a unique opportunity for the world elite in science and academia to interact and exchange with the brightest talents in science and medicine – a springboard for global knowledge exchange.

Each year, the Bayer Science & Education Foundation supports 20 young researchers from around the world to attend the conference as “Bayer Lindau Fellows.” Furthermore, the foundation organizes science dialogue evenings to exchange ideas and scientific spirit between fellows and senior industry scientists.



Bayer Humboldt Foundation Fellows at the “Science for a Better Life Symposium” in Leverkusen, 2013.



Bayer Lindau Fellows meet with Bayer scientists at the Lindau Nobel Laureate Meeting 2014 to exchange on “pioneering research for the benefit of society.”

### Christiane Nüsslein-Volhard Scholarship

The Christiane Nüsslein-Volhard Foundation for the promotion of science and research, supports talented young women with children. It aims to help creating the freedom and mobility a young mother requires to continue a scientific career. The Bayer Foundation is strategic partner in this program enabling every year two places for young mothers in LifeScience and medicine. Application for Bayer places is channeled through the Christiane Nüsslein-Volhard Foundation.

### Bayer Science Teens

This program is open to school students who are fascinated about science and technology.

Every year, up to 10 students receive a travel grant to participate in an international science and sustainability summer camp in America or Asia. Together with local scientists they undertake high-class experimental laboratory studies and excursions.



Doctoral student Katharina Freiberg with her children and Thimo V. Schmitt-Lord at the lab of the Otto-Schott-Institute for material science at the Friedrich-Schiller-University in Jena.

### Bayer Young Physician Leaders Program

This cooperation between the InterAcademy Medical Panel (IAMP) and the Bayer Science & Education Foundation enables each year 20 selected international Young Physician Leaders to participate in the World Health Summit, which is one of the world's largest medical congresses. In addition to the congress participation, the Bayer foundation invites participants to meet up with Bayer HealthCare research experts in order to develop new answers for the challenges in public health and patient care.

### Bayer-Deutschlandstipendien

The "Deutschlandstipendium" is a nationwide talent development initiative in Germany funded in equal parts by the state and inventor companies such as Bayer.

The Bayer Science & Education Foundation is currently funding 100 places at 22 German universities for ambitious talents who are studying life sciences, technology and medicine. In addition to financial support, Bayer Foundation Fellows benefit from networking opportunities with Bayer's innovation community.

Bayer Foundation Fellow Schu-An Liu, pharmacy student at the LMU Munich, gets the opportunity to undertake an internship at Bayer Pharma in Berlin.



For the first time, 20 Young Physician Leaders from 16 different countries participated in the World Health Summit 2013, thanks to a travel grant from Bayer Foundation.



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Medical student Arasch Waifasade gained valuable experience in the Department of Surgery at New York Downtown Hospital, USA, thanks to a Bayer Scholarship.



Veterinary medicine student Marion Leiberich gained valuable experience in the Windhoek Veterinary Clinic in Namibia, Africa, thanks to a Carl Duisberg scholarship of Bayer Foundation.

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