

# Education: powering the future.



Deutsche Telekom Stiftung



# Education: powering the future.

## A driving force for better teaching and learning.

Strengthening STEM education in Germany.

**Education is the stuff that our country's future is made of. And few fields are more important than STEM education. We need an adequate long-term supply of specialists in science, technology, engineering and mathematics. They are the key to more innovation, jobs and prosperity. As a leading foundation in STEM education, we perform many projects to help Germany retain or regain its leading position in education, science and technology.**

A solid basic education in STEM subjects is the first step to obtaining good job prospects and becoming a respected member of society. That is why Deutsche Telekom Stiftung's activities target young learners as well as elite researchers.

By addressing every link in the educational chain, we intend to permanently strengthen Germany's overall position as an education, research, science and technology leader. Of course, we cannot and do not want to replace government programs. Instead, our projects drive innovation and help establish proven ideas in the education landscape. Our track record speaks for itself: several German states have already adopted our model projects in their educational systems.

We constantly seek out and develop promising project ideas to be rolled out on a larger scale. Every project has to meet strict criteria for feasibility and applicability. Our ultimate goal: to make Germany's STEM educational system so strong that phrases such as „engineer shortage“ simply vanish from our vocabulary.



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# Projects along the educational chain.

Deutsche Telekom Stiftung and its activities.

**With an endowment of EUR 150 million, Deutsche Telekom Stiftung is one of Germany's largest corporate foundations. We thus have the resources to launch projects that effectively improve STEM education along the entire educational chain: from early education to in-school and extracurricular learning to teacher training and skills development.**

We organize our activities into five groups: In **Early Education**, we support the teaching of STEM subjects in pre-elementary education and help students transition seamlessly to elementary school. **Classes & More** comprises all the projects that combine in-school and extracurricular STEM programs.

**Teacher Training**, by contrast, focuses on providing vocational and continuing education for STEM instructors. We support gifted STEM students in **Talent Development**. Finally, **Creating Awareness** covers programs to enhance understanding of STEM subjects, identify weaknesses in the educational system and effect positive change.

To make the foundation's projects as effective as possible, we always bring highly regarded researchers and educators on board at the start. They advise and assist us in designing and executing our ventures



## Early Education.

Projects for pre-elementary education and the transition phase.

Day care centers and elementary schools give young generations the tools they need to succeed. However, Germany's day care centers have fallen well behind those in other countries in terms of education. The transition from pre-elementary to elementary programs is also far from smooth.

Our projects aim to improve this situation. Our main target group: pre-elementary and elementary school teachers. We help them by developing teaching materials, promoting alternative learning and teaching methods and providing continuing education.

### Project examples

- Day Care Centers and Schools in Dialog
- Nature – the Learning Laboratory
- Creating Science
- Endowment Professorship Early Science Education

## Classes & More.

Projects for learning inside and outside of school.

PISA has become synonymous with the weaknesses of the German school system. Our country's educational system still leaves much to be desired, especially in science and mathematics.

We want to interest more students in STEM subjects and augment in-school learning with extracurricular activities. University and career goals need to be brought into the classroom early on. That is why we encourage close ties between schools and partners in academia and industry to help students manage the transition from school to college or work.

### Project examples

- Experimental Kitchen
- Research Camp
- Junior Engineering Academy
- Science Kit
- Learning on the Ground



## Teacher Training.

Projects for the initial and continuing training of teachers.

Nearly 700,000 teachers give lessons at Germany's general education schools. They play a pivotal role in training tomorrow's workers.

High school graduates need to see teaching as a more attractive career. We encourage universities to devote far more attention and resources to teacher training. Excellence in this field should be as highly respected as research excellence. We support universities in their efforts to specialize in training MINT teachers, starting with mathematics. Our focus is on projects that successfully combine scientific knowledge with general and specialized education.

### Project examples

- Children Count Differently
- STEM Teacher Training University Competition
- Mastery in Math
- National Center for Mathematics Teacher Training



## Creating Awareness.

Forging ideas for education policy.

We perform most of the foundation's activities with institutions in the educational system. However, we also work closely with key players such as educational administrations, associations, research outfits and other foundations. We view ourselves as a driving force behind the kind of education policies that give Germany the educational edge it needs to remain a longstanding leader in research, science and technology.

### Project examples

- Innovation Indicator
- German Future Prize
- Media Competence throughout the Education Chain
- Creating a STEM Future

## Talent Development.

Projects to support highly talented STEM students.

Well-trained young teachers, researchers and scientists are the driving force that makes Germany a good place to do business.

We identify and support talent in STEM fields by awarding scholarships to gifted young scientists. We also support young people with a special talent for mathematics and give out scholarships to teenagers from immigrant families with a keen interest and a strong record of achievements in STEM subjects.

### Project examples

- Doctoral Scholarships
- Early Study
- Youth Training in Mathematics
- START Scholarships



Learn more about the foundation and our projects at

[www.telekom-stiftung.de](http://www.telekom-stiftung.de)

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**The founder.**

As a leading telecommunications provider, Deutsche Telekom believes in the importance of bringing together society for a better future. It takes its social responsibility to the community seriously and wants to do its part to improve the world we live in.

This is why Deutsche Telekom established Deutsche Telekom Stiftung in December 2003. It supports the company's vision and promotes the emergence and evolution of an interconnected knowledge and information society in Germany and around the world.