



Education:
powering the future



Deutsche Telekom **Stiftung**



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. Over the long term, we need people with science, technology, engineering and mathematics skills.

After all, a solid grounding in the STEM subjects provides the basis not only for obtaining good job prospects, but in particular also for actively participating in 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.

Projects along the educational chain

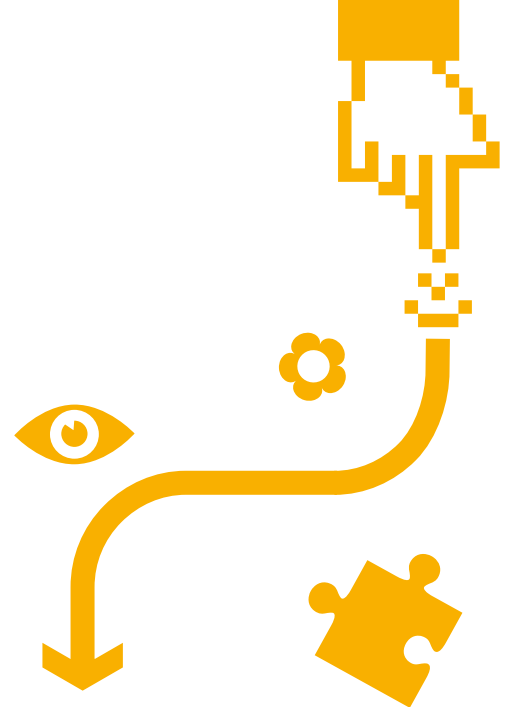
Deutsche Telekom Stiftung
and its activities

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

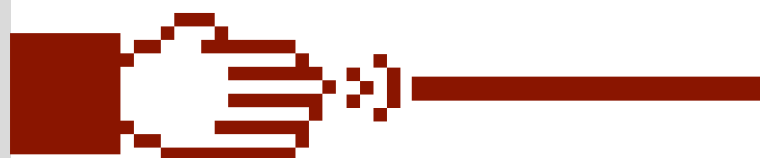
Day care centers and elementary schools give young generations the tools they need to succeed. However, Germany's day care centers have fallen well behind those in other countries in terms of education. The transition from pre-elementary to elementary programs is as far from smooth.

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

- Creating Science
- Endowment Professorship Early Science Education
- "Forschergeist" Competition



Classes & More

Projects for learning inside and outside of school

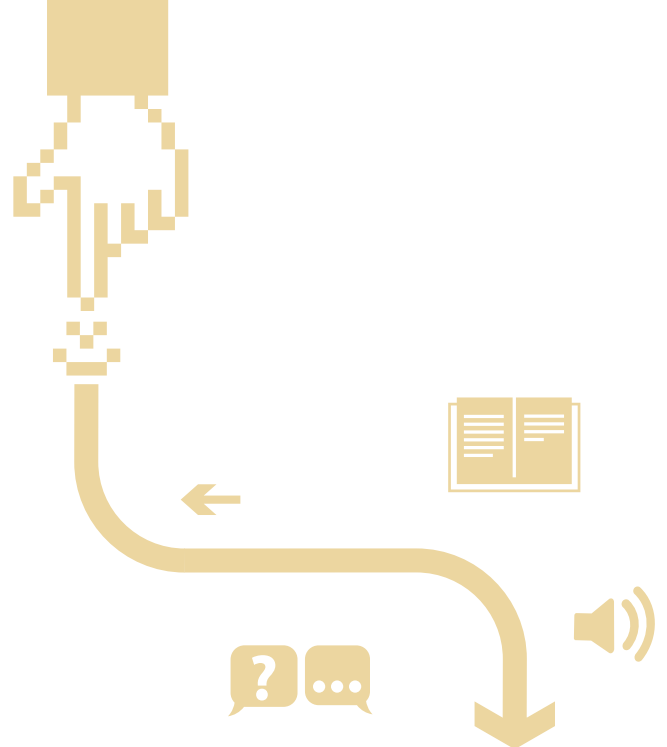
PISA has become synonymous with the weaknesses of the German school system. Our country's educational system still leaves much to be desired, especially in science and mathematics.

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

- Junior Engineering Academy
- MINTeinander
- Research Camp



Teacher Training

Projects for the initial and continuing training of teachers

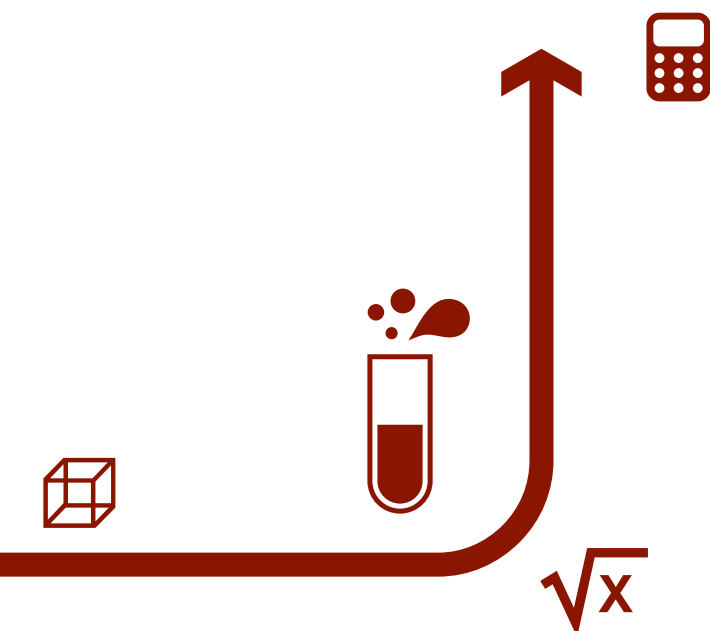
Nearly 700,000 teachers give lessons at Germany's general education schools. They play a pivotal role in training tomorrow's workers.

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

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



Talent Development

Projects to support highly talented STEM students

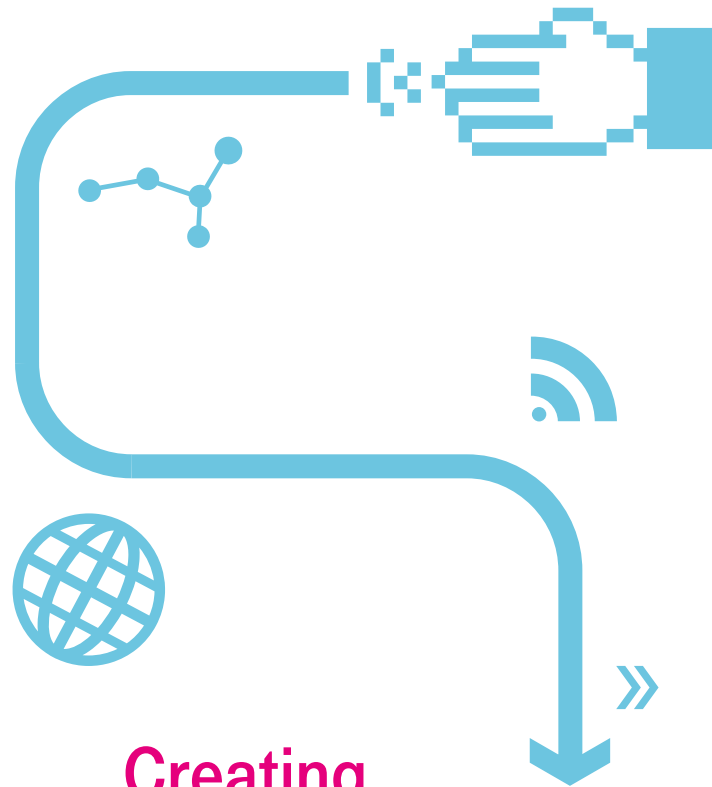
Well-trained young teachers, researchers and scientists are what drives the development of Germany as a good place to do business.

We identify and support talent in STEM fields by awarding scholarships to highly gifted young scientists and Master's students pursuing education degrees. We also support young people from immigrant families with a keen interest and a strong record of achievements in STEM subjects.



PROJECT EXAMPLES

- Doctoral Scholarships
- Early Study
- FundaMINT
- START Scholarships



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

- German Future Prize
- Innovation Indicator
- Teacher Training Survey

