

# Junior Engineer Academy

## OBJECTIVE

To provide insight into the training and everyday working life of engineers and scientists



## TARGET GROUP

Schools, universities and companies



## PROJECT PARTNERS

Educational Exchange Service (PAD),  
The Central Agency for German Schools Abroad



## DURATION

since 2005

There is great demand for natural scientists, engineers and STEM teachers in Germany, and although perspectives in these professions are great, many young people decide to go for other careers, one important reason being the frequent lack of knowledge on what lies behind scientific or technical job descriptions. Schools provide insufficient information on the work of scientists and engineers. The Junior Engineer Academy of Deutsche Telekom Stiftung is set to close this gap.

The Junior Engineer Academy awakens an early interest in technical jobs and engineering careers in learners at secondary school level (13 to 14-year-olds). This serves to effectively alleviate the lack of young talent in these areas.

The Junior Engineer Academy is firmly anchored as a compulsory elective subject in the syllabus of schools with a period of two years. Academies are always based on the cooperation of schools with universities, scientific bodies and companies offering learners the opportunity to practically apply what they have learned in class. Partners could be, for example, companies from the region, public utilities, research centers, universities or universities of applied science.

Telekom Stiftung is spreading the Junior Engineer Academy across Germany. Another objective is to significantly increase the proportion of girls. Most preparatory high schools and every comprehensive school can set up a Junior Engineer Academy and would receive support from Telekom Stiftung. The nationwide network has been growing steadily since the start of the



Junior Engineer Academies awaken an early interest in science and technology.

## JUNIOR ENGINEER ACADEMIES HELP TO COMBAT THE LACK OF SPECIALISTS IN TECHNICAL JOBS.

project and exchanges ideas at their annual meetings. Network meetings also take place on local and regional level, with schools from the

surrounding areas discussing their experiences, therefore profiting from each other.

Since 2015, Telekom Stiftung has been offering schools in the network the opportunity to build long-term school partnerships with schools abroad. The principal target regions are Central, Eastern and Southeastern Europe.

More information:  
[www.telekom-stiftung.de/en/jea](http://www.telekom-stiftung.de/en/jea)

# Project partners



## Educational Exchange Service (PAD) of the Standing Conference of Ministers of Education and Cultural Affairs

The PAD is the sole public organization in Germany working on behalf of the Federal States to promote international exchange and cooperation in the school sector. The PAD is a department of the Secretariat of the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany (Kultusministerkonferenz).

The Kultusministerkonferenz aims to further strengthen international cooperation in this sector. Thus, it is assuming responsibility for raising standards in the education sector and for safeguarding international mobility.

The PAD carries out its role in cooperation with the states in the Federal Republic of Germany, the Federal Foreign Office, the EU Commission and other national and international partners.



## The Central Agency for German Schools Abroad

The Central Agency for German Schools Abroad (Zentralstelle für das Auslandsschulwesen, ZfA) of the Federal Office of Administration supports over 1,200 schools worldwide, including 140 German schools abroad – mainly in public-private partnership – and approximately 1,100 schools in the respective educational system in which the German Language Certificate (DSD) can be acquired. On behalf of the Federal Foreign Office and in close cooperation with the federal states, the ZfA provides them with personnel, financial and pedagogical assistance. The ZfA, which was established at the Federal Office of Administration in 1968, reports to the Federal Foreign Office.

# Publication

The “Junior Engineer Academy” brochure has been available since May 2014 – participants and cooperation partners report on their experience and findings with and in the Junior Engineer Academy. Interested schools and cooperation partners learn about the advantages offered by the Junior Engineer Academy and what they should consider during its organization.

The 16-page brochure can be ordered free of charge from Telekom Stiftung – also as a class set: [kontakt@telekom-stiftung.de](mailto:kontakt@telekom-stiftung.de)



## DEUTSCHE TELEKOM STIFTUNG

Deutsche Telekom Stiftung was established in 2003 to strengthen Germany's position as an education, research and technology leader. It is one of the country's main corporate foundations with an endowment of EUR 150 million. Deutsche Telekom Stiftung's mission is to improve education in the digital world concentrating on the so called STEM subjects science, technology, engineering and mathematics. It focuses on four core areas: Education Drivers, Education Opportunities, Education Innovations and Education Dialog.

In Education Drivers, the foundation supports people who inspire others to study STEM subjects. Education Opportunities involves projects to prepare children and teenagers to succeed in STEM fields and participate fully in our connected world. In Education Innovations, the foundation invests in researchers and teachers who specialize in STEM subjects. Finally, Education Dialog comprises all the projects in which the foundation works with policymakers and civil society to improve education in a digitized world.

### CONTACT

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