



UNITED ARAB EMIRATES
MINISTRY OF EDUCATION



هندسة المستقبل
engineer the future

A programme by

EGA 
الإمارات العالمية للألمنيوم
EMIRATES GLOBAL ALUMINIUM



Engineer the Future



Emirates Global Aluminium's Engineer the Future school outreach programme, in collaboration with the Ministry of Education is a hands-on interactive learning experience for cycle 3 students. Our open stage and hands-on workshops are designed to help students explore the real-life applications of science, technology, engineering and mathematics (STEM), and to inspire them to pursue future careers in these vital fields.

Over the last four decades science, technology, engineering and mathematics professionals have built EGA into the largest industrial company in the United Arab Emirates outside oil and gas.

Today, EGA employs over 1,500 STEM experts, including more than 500 UAE Nationals. To continue our success for the decades ahead, we want more young people to study and pursue careers in STEM fields.

But it is not just EGA that needs STEM talent for the future. Our nation does too.

UAE Centennial 2071 identifies STEM skills as vital to the development of a competitive, diversified, knowledge-based economy in the United Arab Emirates. Excellence in STEM is also essential to achieve the UAE's Operation 300bn industrial growth goals.



Who can participate?

The Engineer the Future programme is designed for secondary school students in grades 9 to 12.



How are the sessions conducted?

Engineer the Future consists of two different sessions:

A 40-minute open stage and a 40-minute hands-on workshop in one of four key areas.

The open stage is intended for groups of up to 100 participants. The session provides an interactive and engaging presentation on the aluminium industry, its process, applications and innovation through storytelling and interactive Q&A.

The hands-on workshop welcomes for up to 30 participants and focuses on one of four aspects of the aluminium industry including topics such as material science, Industry 4.0, circular Economy and sustainability.

Our Impact

36,000+

students reached
since inauguration

128+

schools visited
so far in the UAE

62%

of programme
participants are
female



What are the benefits of Engineer the Future?

The Engineer the Future learning experience is a complement to classroom instruction. Our open stage and hands-on workshops encourage students to explore how topics that are learnt in the classroom are applied in real life. Our workshops also encourage team work, analytical thinking and listening through group work.

Every workshop is aligned with UAE curricula standards and learning outcomes, including and not restricted programming and conductivity.