



STEM EUROPE

BY **HAPPY
TOURS**



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STEM HIGHLIGHTS



There is much more to Europe than rich history and diverse cultures. At HAPPY TOURS, we take you beyond a traditional tour and provide an immersive and rewarding experience with the various STEM activities across the continent. Our goal is to connect people more deeply with the destination and go beyond what you can learn in a classroom or lecture. We design high-impact itineraries that encompass science, technology, engineering, math, and more to provide thoughtful and hands-on experiences and memories that will last a lifetime. We help you see Europe as an interactive classroom with experiences ranging from learning about geothermal energy in Iceland or aircraft engineering in France. Our itineraries showcase the incredible technological advances and sustainability efforts that are ongoing across the continent. With an approach rooted in curiosity and innovation, we're proud to showcase the extensive STEM offerings across Europe and aim to develop travel programs that enrich and inspire.

KNOWLEDGE HAS EVOLVED SINCE...

the Medieval Ages, brewed with the influence of Arab scientists and thinkers, reinvigorated in the Renaissance until it became central to the human progress in the age of Enlightenment, which marked the beginning of the Modern world.

From its onset in Ancient Greece, scientists such as Aristotle, Galileo Galilei, Isaac Newton, Marie Curie and many others were instrumental in developing the level of understanding of the world that we have today. They developed scientific disciplines and made key discoveries in numerous fields.

Still today, Europe is at the forefront of innovations and discovery. One cannot think of STEM without considering the cutting-edge discoveries by researchers in Cambridge or Oxford, research projects such as CERN, and some of the most impressive engineering works on the planet or the countries leading the way in the field of sustainability.

Not only was Europe the birthplace of so many incredible technological feats and advances but it's also leading the way towards a peaceful, more democratic and prosperous future.

We invite you to discover with us...



The roots of STEM come evenly split from Greek and Latin. Science originates from the Latin word *scientia*, meaning "knowledge", "understanding", or "experience", while the word technology comes from the Ancient Greek words *tekhnē* (art, skill, or craft) and *logia* (study, discourse, or branch of knowledge). Engineer originates from the Latin *ingeniare* ("to devise") and *ingenium* ("cleverness") and Mathematics from the Greek *máthēma* (μάθημα), meaning "that which is learnt" or "knowledge/study", which stems from *manthánein* ("to learn").



MOTOR VALLEY EMILIA ROMAGNA, ITALY

The Motor Valley in Northern Italy may very well be considered the birthplace of speed. 6 legendary brands, 4 iconic circuits and 188 racing teams come from there. Along with 8 training institutes of excellence, 13 museums and 19 unique private collections that share one thing in common – they are all settled in Emilia Romagna region, very close to one another. Ferrari, Lamborghini, Maserati, and Ducati are just a few of the most popular brands that are keeping imagination alive. In Motor Valley, groups can tour the different factories and museums and participate in a number of educational workshops.

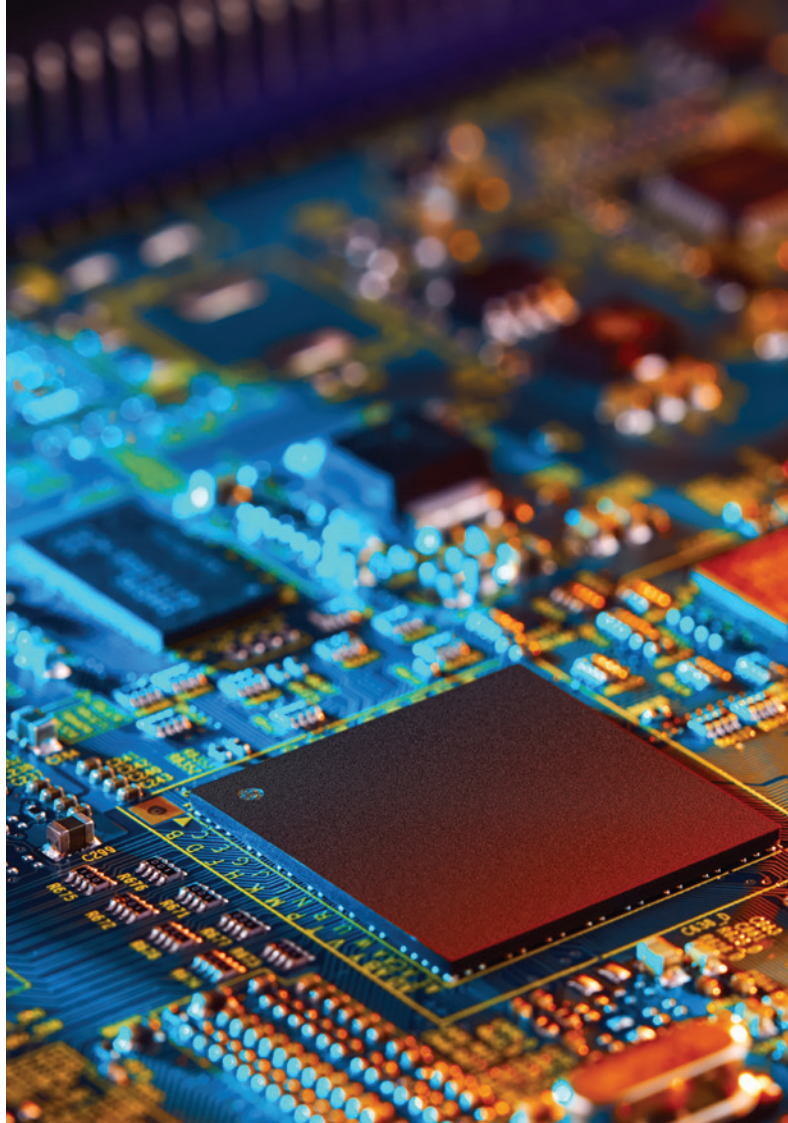


AIRBUS FACTORY TOULOUSE, FRANCE

Toulouse is the city which produces the most aircrafts in the whole world, thanks to it being the operational hub of Airbus. During the factory tour you will have a unique opportunity to discover the latest generation of the Airbus aircraft. The tour includes a presentation of the history of aviation as well as a bus tour of the 700 hectares of Airbus infrastructure. There's also a stopover at the A350XWB (eXtra Wide Body) assembly line lookout, with a detailed presentation of the production process.

THE INSTITUTE OF MICROELECTRONICS BARCELONA, SPAIN

The Institute of Microelectronics is a highly regarded research centre, dedicated to the development of new Micro and Nano technologies. A visit to the Institute of Microelectronics provides access to the Clean Room used for the most sensitive production processes. It's one of the largest halls of its kind in Southern Europe and a place where very low concentration of airborne contaminants are found. During a guided tour, you will get an introduction to the microelectronics technology, the applications of research, and witness the evolution of the discipline over the years in addition to getting an inside look into the chip manufacturing process.



CITÉ DE LA SCIENCE PARIS, FRANCE

Paris is home to the largest science museum in Europe – the Cité des Sciences et de l'Industrie. There are exhibitions on every aspect of STEM – including maths, robotics, the brain, sound, space and video games. You can step into the shoes of an astronaut or dive into the climate emergency, from understanding greenhouse gases and their impact to the political issues involved in finding a solution. There's a planetarium, IMAX theatre and even a submarine.





THE ROYAL OBSERVATORY GREENWICH LONDON, UK

The Royal Observatory in Greenwich is the historic home of British astronomy and the location of the Prime Meridian (0° longitude), as well as the source of Greenwich Mean Time (GMT). This means that it was here that the standard time system that became the basis for world time was established! The Royal Observatory was founded in 1675 by King Charles II to improve navigation at sea and is now a UNESCO World Heritage Site that allows visitors to stand with one foot in the Eastern Hemisphere and one in the Western Hemisphere. Sitting on top of Greenwich Park, it offers stunning views over London, both classical and modern.

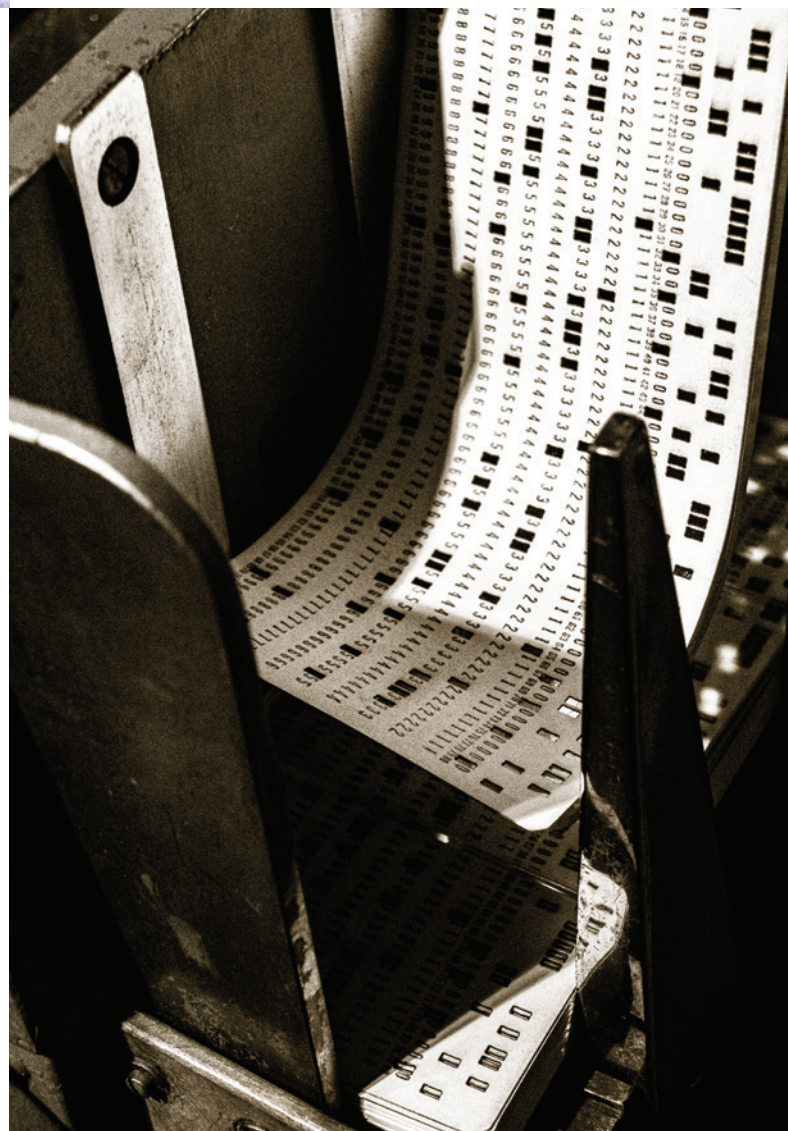


THE EDEN PROJECT CORNWALL, UK

Home to one of the world's largest rainforests in captivity, and with over 20 acres of outdoor gardens, the Eden Project is a fantastic place to learn. In the Outdoor Gardens, wild landscapes are juxtaposed with Europe's largest collection of useful plants – from food crops to medicines. Under the first of the two large covered roofs is the Mediterranean Biome and in the second, the crown jewel, the Rainforest Biome. The Eden Foundation runs various workshop for schools and universities, ranging in topics from Science, Sustainability, Business, Tourism, Education, Art and Creativity and even Geothermal energy.

BLETCHLEY PARK BUCKINGHAMSHIRE, UK

Less than two hours north of London lies Bletchley Park, which was the central site for British code breakers in the Second World War. This once top-secret site is now a museum where you can explore the site where Alan Turing and his colleagues broke the German Enigma code. It offers a mix of restored huts, exhibitions, and interactive displays showcasing how codebreakers helped bring an end to WWII. Regular exhibitions showcase the life and works of Alan Turing, who is widely recognised as the father of modern computing. The museum offers interesting workshops for highschool and college students on various fields, such as Maths, Computing and History.



CENTRE FOR ALTERNATIVE TECHNOLOGY MACHYNLLETH, WALES

The Centre for Alternative Technology (CAT) is a world-renowned eco centre that showcases practical solutions for a sustainable future. Combining practical skills with immersive wellbeing experiences, CAT truly is the home of sustainability education. With on-site accommodation, your visit can span from a day-long workshop to multi-day courses where you'll learn about sustainable food production or how to build a wind turbine or tiny house. Located in the stunning UNESCO Dyfi Biosphere Reserve in Mid Wales the CAT site was once a Welsh slate quarry. The Centre's Quarry Trail Walk highlights the area's slate heritage and the reservoir that feeds CAT's off-grid water system.





CERN GENEVE, SWITZERLAND

CERN, the European Organization for Nuclear Research, is one of the world's most respected centre for scientific research. It is the world's largest particle physics laboratory, where scientists from all over the world work on revealing the secrets of the universe searching for the answers to questions such as "what are the basic building blocks of matter" and "how did the universe begin?" They are splitting atoms using The Large Hadron Collider (LHC), the world's largest and most powerful accelerator, located in a 27-km tunnel. It was right here at CERN where the internet was born to facilitate research amongst the many thousands scientists who worked here.



THE NOBEL PRIZE MUSEUM STOCKHOLM, SWEDEN

The Nobel Prize is one of the highest honours in the world. It is awarded every year in Stockholm in the fields of Physics, Chemistry, Physiology, Medicine, Literature and Economy, whilst in Oslo they award one for Peace. Alfred Nobel was born in Stockholm and for the 100th anniversary of the Nobel Prize in the historic centre of the city, Gamla Stan, they opened this very interesting museum. Here you can delve into his life and learn the history of the awards and all who received one.

PORTLANTIS & THE ROTTERDAM HARBOUR ROTTERDAM, THE NETHERLANDS

Portlantis is a newly built information centre showcasing Europe's largest and most state-of-the-art port of Rotterdam. It is a massive industrial complex known for its advanced, automated container terminals. The largest ships in the world are docking here. Thanks to the Maasvlakte 2 project, the port has been extended by thousands of hectares of reclaimed land. Created by dredging sand from the ocean floor of the North Sea, you can witness this engineering feat which has strengthened the region's position as a major European logistics hub. Combine a visit here with a guided exhibition tour and you'll get close up access to these container terminals and the latest offshore installations.



HELLISHEIÐI GEOTHERMAL POWER PLANT ICELAND

With still active volcanoes, geysers, glaciers, black sand beaches and various lava formations, Iceland is one of the best places on the planet to explore earth sciences. Thanks to its geological past, it is also a global leader in renewable energy, with over 70% of its total primary energy and nearly 90% of household heating derived from geothermal sources. Hellisheiði Geothermal Power Plant is the largest geothermal plant in the country. During the tour of the Plant you will understand how geothermal energy is harnessed and its implications for the future. This is also where carbon dioxide is captured, mineralized and reinjected back into the ground. Come see and learn about this state-of-the-art project that has the potential to assist humanity in battling climate change.





DEUTSCHES MUSEUM MUNICH, GERMANY

Over 100 years old and with over 125,000 items, the Deutsches Museum in Munich, Germany is the largest science museum in the world. Valuable originals such as the Wright Brothers' first powered airplane, the U1 submarine, the first diesel engine and the first program-controlled computer make the museum collection truly outstanding. Don't miss the high-voltage demonstration where you get the chance to witness a voltage of about 270 kV, made visible by a discharge across a spark gap. Yet it's not only an overview of the past, the museum's new technologies section explores the concept of robot assistants and looks at the future of robotics and science in tomorrow's world. Apart from general guided tours, the museum also organises thematic tours depending on the subject of your interest.



GERMAN SPACE AGENCY COLOGNE, GERMANY

The German Aerospace Centre (DLR) is the German national aeronautics and space research centre. Here, the aircraft of the future is being developed, rocket engines are being tested, and images of distant planets are being analysed. Your groups will be taught by the Centre's scientists and graduate students, and they'll look at topics such as microgravity, gravitation biology, comet simulation and solar water purification. They will learn about Earth observation data in educational modules that introduce the use of satellite images step by step. Drought in California, life on a volcano or energy consumption around the rivers Rhine and Ruhr, are just some of the many topics covered. They'll also find out more about the day-to-day work of a researcher, so this visit could inspire future careers too!

BMW FACTORY MUNICH, GERMANY

The BMW Group Plant Munich is the main plant of the BMW Group, where vehicles and engines have been manufactured since 1923. The guided tour takes you through the various stages of the car production, from the press shop, body shop, paint shop and onto the final assembly line and also a the glimpse into the engine production. You will be fully immersed into the factory which produces around 900 cars every day. Today, the BMW Group is in the midst of the transformation to e-mobility and the Munich factory is starting to manufacture all-electric models exclusively.



THE RIMAC CAMPUS ZAGREB, CROATIA

Less than two hours from the birth place of Nikola Tesla, now home to a memorial centre to the great scientist, you'll find the state-of-the-art electric vehicle (EV) company, Rimac. Known for Nevera, the fastest electrical car, the company is constantly pushing the limits of EV performance. A visit to their new campus showcases high-tech robotic production with artisan craftsmanship. A guided tour takes you through the battery and components production, paint shop, assembly line as well as provides a look into the history of the company. There may even be an opportunity to meet the founder, Mate Rimac, himself!





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