

TECHFEST

Promoting Science, Technology, Engineering and Mathematics

Scottish Charity No SC010349

PROGRAMME DIRECTORY















Get ready to explore the wonderful world of TechFest's programs and events that cater to everyone! We're thrilled to offer a wide range of activities designed to bring joy and learning to all ages.

In this document you will find events and activities that are perfect for families and adults looking for a bit of fun and excitement.



For more information contact Sarah Chew, Managing Director, TechFest at sarahchew@techfest.org.uk

FULL PROGRAMME OVERVIEW

<p>JAN - DEC PRIMARY</p>		<p>EDUCATION PRIMARY OUTREACH</p>	<p>A CATALOGUE OF STEM WORKSHOPS THAT ARE TAKEN INTO SCHOOLS ACROSS SCOTLAND TO ALLOW PUPILS TO ENGAGE WITH STEM IN A FUN AND DYNAMIC WAY.</p>
<p>JAN - DEC SECONDARY</p>		<p>EDUCATION SECONDARY OUTREACH</p>	<p>STEM RELATED PROJECTS THAT ARE TAKEN INTO SCHOOLS ACROSS SCOTLAND TO ALLOW PUPILS TO ENGAGE WITH STEM IN A FUN AND DYNAMIC WAY.</p>
<p>JAN - DEC SECONDARY</p>		<p>EDUCATION & PUBLIC TECHFEST TALKS</p>	<p>STUDENT LED PODCAST THAT ALLOWS STUDENTS TO FIND OUT ABOUT THEIR DESIRED CAREER PATHS.</p>
<p>JAN - DEC ALL AGES</p>		<p>EDUCATION SPACE INTO ENERGY</p>	<p>ACTIVITIES ARE DESIGNED TO ALLOW STUDENTS OF ALL AGES TO ENGAGE WITH THE LINKS BETWEEN THE SPACE AND ENERGY SECTORS.</p>
<p>JAN - DEC ALL AGES</p>		<p>EDUCATION THE DISCOVERY SERIES</p>	<p>AN INNOVATIVE AND ENGAGING PROGRAM DESIGNED TO SPARK THE CURIOSITY OF YOUNG MINDS AND CULTIVATE A PASSION FOR STEM ACROSS ALL AGE GROUPS.</p>
<p>NOV 2023 - MAR 2024 SECONDARY</p>		<p>EDUCATION MATHS MASTERCLASSES</p>	<p>TO EXPLORE THE APPLICATION OF MATHEMATICS IN REAL-LIFE PROBLEMS.</p>
<p>JAN - MAR 2024 SECONDARY</p>		<p>EDUCATION MATHS INTO THE ENERGY MIX</p>	<p>CHALLENGES THAT MAINTAIN THE IMPORTANT HISTORY OF OIL AND GAS WITHIN THE ENERGY STORY BUT ADDS IN THE CONCEPTS AND CHALLENGES ASSOCIATED WITH RENEWABLE ENERGY.</p>
<p>FEB - DEC SECONDARY</p>		<p>EDUCATION STEM INTO INNOVATION</p>	<p>TAKES STUDENTS ON AN EXPLORATION INTO PRODUCT DESIGN AND DEVELOPMENT, WHILE PUTTING THEIR STEM SKILLS TO THE TEST!</p>
<p>APR - SEPT PRIMARY</p>		<p>EDUCATION STEM ON THE FARM</p>	<p>STEM-BASED LEARNING PROGRAMME HIGHLIGHTING THE ARRAY OF CAREER OPPORTUNITIES IN THE SCOTTISH AGRICULTURAL SECTOR.</p>
<p>APR - DEC PRIMARY</p>		<p>EDUCATION E.O.L</p>	<p>THE ENGINEER'N' OUR LIVES (EOL) PROGRAM IMMERSSES CHILDREN IN ENGINEERING, TEACHING ESSENTIAL CONCEPTS THROUGH HANDS-ON EXPERIENCE.</p>
<p>MAY - NOV 2024 SECONDARY</p>		<p>EDUCATION STEM NEXT</p>	<p>INTERNATIONAL ESSAY COMPETITION TO RESEARCH A TOPIC OF INTEREST.</p>
<p>MAY 2024 NURSERY TO PRIMARY 7</p>		<p>EDUCATION TECHFEST'S SCHOOLS SCIENCE FESTIVAL</p>	<p>A FLAGSHIP EVENT FOR PRIMARY SCHOOLS TO VISIT AND LEARN ABOUT THE SUBJECTS THEY ARE DOING IN SCHOOL IN A NEW AND ENGAGING WAY.</p>
<p>JUNE 2024 ALL AGES</p>		<p>PUBLIC FAMILY ACTIVITY WEEKEND</p>	<p>ONE OF OUR MOST POPULAR EVENTS FOR FAMILIES TO TAKE PART IN DROP IN WORKSHOPS FROM TECHFEST AND MANY OTHER SCIENCE COMMUNICATORS.</p>
<p>JUN - DEC 2024 SECONDARY</p>		<p>EDUCATION BLUEPRINT CHALLENGE: A FUTURE HIGHSTREET</p>	<p>TEAM PROJECT THAT REQUIRES TO DESIGN A HIGHSTREET OF THE FUTURE.</p>

SUMMER 2024
ALL AGES



PUBLIC
STEM IN THE PARK

TO ENGAGE IN STEM ACTIVITIES THAT ARE DONE IN THE PARK BY UTILISING TEAMWORK AND CREATIVITY.

SUMMER 2024
ALL AGES



PUBLIC
SOCIABLE SCIENCE

TO ENGAGE IN STEM ACTIVITIES THAT ARE DONE IN CONVERSATION BY UTILISING TEAMWORK AND CREATIVITY.

AUG - DEC 2024
SECONDARY



EDUCATION
STEM IN THE PIPELINE

CHALLENGES 17-18 YEAR OLDS TO PRODUCE A FIELD DEVELOPMENT PLAN WHILE WORKING ALONGSIDE INDUSTRY PROFESSIONALS.

SEP 2024
PUBLIC



PUBLIC
ABERDEEN SCIENCE FESTIVAL

A FLAGSHIP EVENT THAT OFFERS FACE TO FACE EVENTS, OPEN TO ANYONE WITH AN INTEREST IN STEM

SEP 2024
SECONDARY



PUBLIC
EXPLORATHON

EVENTS THAT SUPPORT THE COMMUNICATION OF CUTTING-EDGE SCIENCE FROM UNIVERSITY OF ABERDEEN RESEARCHERS

NOV 2024
PUBLIC



PUBLIC
TECHFEST DIGITAL SCIENCE FESTIVAL (ONLINE)

A FLAGSHIP EVENT THAT OFFERS ONLINE EVENTS, FREE AND OPEN TO ANYONE WITH AN INTEREST IN STEM

DEC 2024
ALL AGES



EDUCATION & PUBLIC
STEM ADVENT CALENDAR

AN INTERACTIVE ADVENT CALENDAR TO HELP COUNTDOWN THE DAYS TILL CHRISTMAS BY UNLOCKING AN EXCITING STEM CHALLENGE THROUGHOUT DECEMBER.

DECEMBER 2024
SECONDARY



PUBLIC
CHRISTMAS LECTURES

THE ROYAL INSTITUTION'S CHRISTMAS LECTURES ARE SERIES OF SCIENCE LECTURES FOR YOUNG AUDIENCES, AIMING TO MAKE SCIENTIFIC CONCEPTS ENGAGING AND ACCESSIBLE.

DATE TBC
SECONDARY



EDUCATION
MATHS INTO

MATHEMATICAL BASED REAL-LIFE CHALLENGES TO GIVE PUPILS AN INSIGHT INTO THE CAREER POTENTIAL OF THE SECTOR.

JAN - DEC
SECONDARY



EDUCATION
CAREER READY

TO EMPOWER YOUNG PEOPLE IN S5/6 TO KICK-START THEIR CAREER THROUGH MENTORING & PAID INTERNSHIP.

JAN - DEC
ALL AGES



EDUCATION & PUBLIC
CREST

NATIONALLY RECOGNISED ACCREDITATION SCHEME TO INSPIRE AND ENGAGE 5-TO-19-YEAR OLDS IN SCIENCE ACTIVITIES.

OUR SPONSORS AND SUPPORTERS





TECHFEST TALKS

Launched in 2021, TechFest Talks isn't just any talk series – it's a student-powered podcast designed to set young minds ablaze with inspiration and possibility!

Imagine a world where students take the reins, steering the conversation towards their passions and career aspirations. That's exactly what TechFest Talks is all about – empowering students of all ages to explore their interests, uncover their dreams, and chart their course towards an exhilarating future.



But wait, there's more! In every heart-pounding episode, students hailing from all corners of the UK step into the spotlight, seizing the opportunity to interview industry professionals from a myriad of sectors. This podcast is full of insights, advice, and insider knowledge, all served up with a side of pure excitement.

For the hosting students and eager listeners alike, TechFest Talks isn't just a podcast – it's a gateway to unlimited possibilities. So buckle up and get ready to dive headfirst into the world of tomorrow, because with TechFest Talks, the adventure is just beginning!

For more information contact gabijablazyte@techfest.org.uk

TECHFEST digital Skills Development Scotland

SCOTTISH CAREER'S WEEK

PODCAST HOST
JASMINE KIERAN-EJIMADU



Jasmine is a fifth year student who loves all things anatomy and French. She is currently working towards her medicine application in the hopes that she will be able to do take part in some medical research in the future. She is also a member of the Young Scot Health Panel which promotes health information for young people living in Scotland. She has a passion for teaching and hopes that one day she can teach others, both in English and in French.

PODCAST GUEST
VICTORIA ALLAN



Victoria Allan has recently completed her graduate scheme and is a Mechanical Engineer at CNOOC International, currently working in the Maintenance Delivery Team. Victoria graduated from Robert Gordon University in 2017 with a Masters in Mechanical and Offshore Engineering. She joined CNOOC International in 2017 and has worked in a variety of roles both onshore and offshore, including within Facilities Engineering, Hydrocarbon Release Prevention and as Offshore Operations Engineer, on the Golden Eagle and Buzzard Platforms. She is a very active STEM Ambassador and is currently part of an internal project to begin a STEM Ambassador Programme within CNOOC and was shortlisted for OGUJ's Graduate of the Year in 2019.

LEARNING ABOUT THE ENERGY INDUSTRY

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FAMILY ACTIVITY WEEKEND

The TechFest's Schools Science Festival is concluded with our highly anticipated Family Activity Weekend which is open to the public, and is always a popular highlight in our year.

Hosted at Robert Gordon University, a wide range of workshop providers are invited to be part of this STEM extravaganza, which gives TechFest the opportunity to showcase our own resources, as well as providing a platform for other STEM educators.



Unlike the timed workshops of the TechFest's Schools Science Festival, the Family Activity Weekend is a mix of drop-in activities as well as some timed workshops and shows that families can sign up to take part in.

It has always been one of our top priorities to make this event inclusive and accessible to all families. In order to help remove financial barriers of participation, we strive to keep costs as low as possible to the public. The Family Activity Weekend is known for its slogan "In for a penny, in for a pound" which reflects our pricing structure as entry for an adult is £1 and entry for a child is a single penny. In addition, we are aware that a loud and busy atmosphere is not always a good learning environment for children or adults with sensory sensitivities, so we also offer a "TechFest Goes Quiet" one hour session within the weekend to cater for families that require a different learning environment.



For more information contact jennytaylor@techfest.org.uk.

JOINT PRINCIPAL SPONSORS



SPONSORS



STEM IN THE PARK

STEM in the Park – where science comes alive through teamwork, creativity, and above all, endless fun! Our mission? To sparkle a passion for science in adventurers of all ages, right in the heart of our local parks across Aberdeen city and Aberdeenshire.



With activities designed to engage the mind and spark the imagination, STEM in the Park is all about turning playtime into a thrilling adventure of scientific exploration.

Each activity is carefully crafted to be repeated at home, empowering our budding scientists to continue their journey of discovery long after the park gates close. And with a treasure trove of resources at their fingertips – from captivating YouTube videos to handy handouts – the learning never has to end.

For more information contact jennytaylor@techfest.org.uk

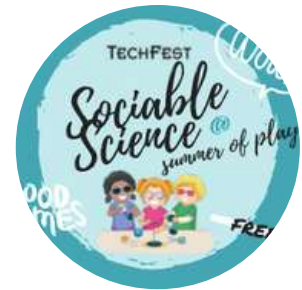


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SOCIABLE SCIENCE

Drawing inspiration from the feedback of families and fuelled by our passion for igniting curiosity, Sociable Science was born. Delivered across Aberdeen city, this programme is not just about science – it's about sparking conversations, fostering teamwork, and unleashing creativity in an atmosphere buzzing with excitement.



From hands-on experiments to mind-bending challenges, every activity is designed to inspire a sense of wonder and leave smiles plastered on faces of all ages. And the best part? The adventure doesn't end when the session does. Each activity is crafted to be taken home, shared with friends, and revisited again and again.

For more information contact jennytaylor@techfest.org.uk



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ABERDEEN SCIENCE FESTIVAL

TechFest brings together children, young people, families and teachers to engage with STEM in new and exciting ways. Our highly-anticipated annual science festival provides the centrepiece for our year of interactive activities and events that encourage STEM learning.



The Aberdeen Science Festival hosted toward the end of each year, provides weeks of immersive experiences and fun experiments for all ages and interests.

Covering topics including sustainability and conservation, medicine and forensic science, health and psychology, and technology, attendees get the chance to learn from the past and look toward the future, all through the lens of STEM learning.

The Aberdeen Science Festival has always featured talks and demonstrations from well-known names and experts from higher education, industry bodies and local businesses.

For the first time ever, TechFest is going to host an in person Aberdeen Science Festival in September following by a digital festival in November.

For more details please contact jennyntaylor@techfest.org.uk



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STEM ADVENT CALENDAR

The TechFest STEM Advent Calendar is a highly interactive, online space for young people and their families and teachers to participate in a range of exciting activities throughout December.



Developed to be inclusive of all interests and skill levels, the STEM Advent Calendar - '24 Days of STEM' - help those who take part to develop science, design and coding skills, with more than a few fun and festive surprises along the way.

Eliminating barriers to participation, we aim to develop engaging challenges that require a minimum level of everyday or easily accessible items, with some activities only requiring a piece of paper and some imagination.

There is no cost attached to participation, and we would ensure each countdown can be accessed from desktop, mobile and tablet devices.

For more information contact kirstycranna@techfest.org.uk



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CHRISTMAS LECTURES

The Royal Institution Christmas Lectures are a prestigious series of lectures held annually in London, UK, since 1825. These lectures are designed to present cutting-edge scientific topics in an engaging and accessible manner, primarily aimed at young audiences but enjoyed by viewers of all ages. The lectures are typically broadcast on television during the Christmas period, making them a beloved holiday tradition for many families.



Each year, a prominent scientist or expert in their field delivers a series of lectures exploring a specific theme or topic. Past lectures have covered a wide range of subjects, including physics, chemistry, biology, astronomy, and technology. The speakers often incorporate captivating demonstrations, interactive experiments, and multimedia presentations to bring their subject matter to life and inspire curiosity in science.



The Royal Institution Christmas Lectures serve as a platform to showcase the latest advancements in scientific research, spark interest in STEM (science, technology, engineering, and mathematics) fields, and encourage critical thinking and inquiry among audiences of all ages. These lectures have become an iconic event in the scientific community and continue to inspire generations of aspiring scientists and curious minds around the world.

For more information contact yashkasmith@techfest.org.uk



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CREST

The Crest Awards, powered by the British Science Association, is a dynamic and innovative platform designed to inspire and recognise young people's achievements in science, technology, engineering, and mathematics (STEM).



The CREST Regional Support Organisation for Scotland is TechFest.

With a focus on hands-on learning and real-world application, the Crest Awards provides students with the opportunity to explore their curiosity, develop critical thinking skills, and unleash their creativity through exciting STEM projects.

Whether it's conducting experiments, designing solutions to real-world problems, or exploring the wonders of the natural world, the Crest Awards offer a wide range of project options to suit every interest and ability level. Students can choose from a variety of award levels, including Discovery, Bronze, Silver, and Gold, each offering a progressively more challenging and rewarding experience.

The Crest Awards program is flexible and accessible, making it ideal for use in schools, youth clubs, and other educational settings. Teachers, mentors, and adult volunteers play a vital role in supporting and guiding students through their Crest Awards journey, providing encouragement, resources, and feedback along the way.

Through participation in the Crest Awards, students not only gain valuable STEM skills and knowledge but also develop essential life skills such as teamwork, communication, and problem-solving. Additionally, Crest Awards provide a valuable opportunity for students to showcase their achievements, build confidence, and inspire others to pursue their passion for STEM.

For more information contact kirstycranna@techfest.org.uk

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