

ARUP



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ARUP & STEAM supporting Science and Engineering-in-a-Box in primary schools in Cork, Limerick, Dublin & Belfast!

Arup's Very Young Apprentices!

Future-proofing the industry with STEAM's creative, early intervention CSR & Education programmes.

I loved our work as young engineers. I learned a lot of new things and it encouraged me to believe in myself no matter what.

- Layla, aged 10, P6 Engineering-in-a-box, 2020 class group.

Despite the uncertainty and difficulty that COVID-19 has brought to business and community alike over the last 18 months, BITCNI members like Arup have remained resilient and steadfast in continuing to support CSR and education initiatives, supporting primary schools. One notable example is that of **STEAM Education**, who specialise in working with industry and academia across the island to support primary education in STEM and Arts subjects.

Arup joined the STEAM Community in 2018, initially supporting primary schools in Cork [STEAM's home base, in University College Cork], then in Limerick & Dublin from 2019, and most recently in Belfast in 2020.

STEM Professionals - We need you!

Volunteer for STEAM-in-a-Box programme and help us inspire the next generation.

"I thoroughly enjoyed my Engineering-in-a-Box co-teaching experience."



"The kids were so full of wonder and creativity, it was a joy to watch them experiment with the range of materials and explore the options to develop solutions"

- Are you a STEM Professional?
- Do you think you have what it takes to inspire 10 year olds to love STEM?
- Can you remember what inspired you to pursue a career in STEM?



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STEAM Education's 'Engineering-in-a-Box' is a fun, hands-on primary school programme, co-taught by engineers, with the primary teacher, in the classroom. With training and all resources provided, the Arup engineers work with the upper primary teachers and children on projects in construction, infrastructure, energy engineering, biomedical, electronics and more!

STEAM goes beyond STEM in integrating and emphasising the equal importance of engaging critical thinking and creativity in children, to develop both “hard” and “soft” skills for a well rounded future work-force, while also supporting primary teachers to upskill and meet their curriculum requirements.



STEAM Education’s Sinéad McGleenon [an Armagh-based primary school teacher with 20 years experience], understands the importance of that face-to-face, apprenticeship-like experience for children - getting to know what an engineer looks like, and learning about the wide variety of options available within engineering careers for children at that age. Sinéad believes, “If you can see it, you can be it”. And the Arup engineers are living and inspiring proof for the children, that they too, can be engineers!

Supported in Belfast by Arup engineers including Melanie Thrush, Arup UK and ROI Senior Geoenvironmental Engineer, Engineering-in-a-Box will restart in P6/7 classes in Victoria Primary School in Newtownards, in September [It was stalled last year due to the COVID related school closures].

Arup are delighted to be working with STEAM Education and primary schools in Cork, Limerick, Dublin and Belfast to inspire future engineers and other STEAM professionals!

The creative resources and training STEAM provides are fantastic, and our engineers love participating in the programmes. We have no doubt that our volunteer engineers, along with the curriculum-linked, teacher friendly programmes are having a really positive impact on future workforce development. We look forward to building on this success all over the island of Ireland in years to come

- Eoghan Lynch, Chairperson of Arup Ireland Trust.

With strong NI links since the formation of the company [founded by Tyrone native & businessman Seamus Devlin in 2014 along with Professor John O’Halloran [now President of University College Cork]; long-term Belfast resident & Professor of Education in Trinity College Dublin, Colette Murphy; Kevin O’Callaghan [former Telecom industry business leader] and Dr. Alice D’Arcy [scientist, educator & Managing Director], STEAM are expanding their operations to support many more primary schools across NI.

Ulster University's Economic Policy Centre predicts a high growth scenario and strong demand for STEM related subjects over the next decade. The subjects forecast to be predominantly under-supplied are engineering and technology, maths and computer sciences and physical and environmental sciences. It is estimated that the economy will require an additional 330 engineering and technology graduates and 290 additional maths and computer science graduates each year.

STEAM Education specialise in supporting companies to work with primary schools to deliver high quality in-depth programmes that match their sector as well as fulfilling school requirements [Programmes include Science, Engineering, Climate Action, Maths & Tech Foundations, and more].



How to get involved:

Your company can support a primary school through an early intervention programme, matched to your company activity, staff and CSR direction.

For further information on supporting your local school, teachers and students through STEM+Arts, **please download our brochure here**, or contact Sinéad McGleenon of STEAM Education on +44 (0)7711 594616 to discuss virtual and in person programmes.

Read more about STEAM and what early intervention with primary schools can do for your company and for society here: <https://bit.ly/The-World-Needs-STEAM>.