

NORTH EAST
SCOTLAND
COLLEGE



STEM MANIFESTO



INTRODUCTION

North East Scotland College has a strategic plan which clearly sets out its intention to be responsive to the needs of our region; to develop individuals and support businesses; to deliver high quality, innovative and relevant education and training and to promote fairness and equality of opportunity.

The north east of Scotland is a region already heavily dependent on STEM skills and future requirements for STEM related skills across all occupational sectors is already well recognised in regional skills development plans. The College occupies a pivotal role in providing current, relevant education and training in STEM so that people are equipped with the knowledge and skills to serve and further develop local industry need.

The College's STEM Manifesto sets out how the College intends to provide education and training to support STEM development in the Region in accordance with the themes set out in the Scottish Government STEM Education and Training Strategy.



EXCELLENCE IN STEM EDUCATION

- › The College undertakes to provide high quality learning to its students which equips them with the appropriate STEM knowledge and skills to enable them to excel in the workplace.
- › The College undertakes to increase the proportion of its activity relating to STEM and to include STEM skills across all course programmes in recognition of the importance of STEM skills in all areas of employment.
- › The College will work in partnership with other education providers to ensure that STEM education and training in the Region is cohesive and students will have a range of suitable pathways with flexible entry and exit points to facilitate their STEM learning.
- › The College will commit to investing in STEM resources for learning so that its students have access to relevant and current technologies.
- › The College will work in partnership with schools and universities to extend availability of Career-long Professional Learning for teachers and lecturers so that the capacity and confidence in delivery of STEM skills is increased and its reach extended across all age groups and covers all areas of the Region.
- › The College will deliver courses in a variety of formats and modes of attendance to facilitate access to suit all our potential students, including school pupils; school leavers; adult returners; people with caring responsibilities or other commitments and people in work who need to train on the job.



CONNECTION WITH INDUSTRY AND REGIONAL DEMAND FOR STEM

- › The College will work with industry partners to keep abreast of changes in technology and equipment to enable the currency and relevance of its curriculum to be maintained; to facilitate access to appropriate resources for learning and to keep the knowledge and skills of its staff up to date.
- › The College will work with enterprise and agency partners to keep STEM at the forefront of its offer and help others to do the same so that STEM is promoted effectively by all.
- › The College will aim to ensure all students on STEM courses are offered work placements or an alternative direct contact with industry to improve communication and connection between industry and the College so that skills needs and development are effectively matched.

STEM INSPIRATION



- › The College will work with Regional STEM Hub partners and others to deliver and support a range of activities designed to provide insight and inspiration in STEM to young people, parents, guardians and other influencers.
- › The College will work with Regional STEM Hub partners and others to increase the number of people who have access to a STEM-related event across the Region and to promote the value of STEM-related skills to young people and communities.

- › The College will undertake to increase its offer of STEM experiences to primary school children to inspire interest and tackle gender segregation at an early age.
- › The College will undertake to increase its capacity to deliver STEM careers advice to young people so that their understanding of opportunities is improved and gender-related myths are debunked.
- › The College, in partnership with industry, has well established programmes which are designed to improve female participation in Engineering and is committed to extending this successful venture to other subject areas to ensure that any under-represented groups have the same opportunity of access to STEM-related education and training.

EQUITY IN STEM



www.nescol.ac.uk

enquiry@nescol.ac.uk

0300 330 5550

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