

IoC Theme Information

Theme One - University Learners led by the Open University

To boost graduate employability through stronger employer links and a new industry standard targeted at degree level qualifications. Increasing the number of university learners educated to level 6 and 7 through outreach to disadvantaged and under-represented groups. The Institute of Coding (IoC) will create new courses in key areas such as Data Science and Cyber Security, embedding innovative learning methods. Programmes will incorporate learning which solves real-world business problems and develops business, technical and interpersonal skills in equal measure.

Work Packages within Theme 1

Sub-Theme 1 IoC Accreditation Standard

- Co-designed Industry Standard

Sub-Theme 2 Blockchain Learning Verification

- Learner Records

Sub-Theme 3 IoC Modular Curriculum

- Degree Programmes

Sub-Theme 4 Industrially Contextualised Learning

- Curriculum Innovation
- Student Enterprises
- Extra-Curricular Innovation
- Innovative Spaces

Sub Theme 5: Mainstreaming Data Analytics to Enhance Teaching and Improve Educational Outcomes

- Use of Analytics for Enhancement

Theme Two - Digital Workers led by Aston University

To develop specialist skills training in areas of strategic importance. Developing work based courses around the degree apprenticeship model that support industry who are looking to recruit and develop software employees. Providing responsive, industry relevant level 7 programmes for developers to improve skills and knowledge in emerging specialist topics. Sharing best practice with academic institutions to improve the learner experience of work based learning and the relevance to employers.

Work Packages within Theme 2

1. Alternative Delivery Models
2. Specialist Provision
3. Generalist Provision
4. Education Training

Theme Three - Digital Transformation led by Coventry University

To transform professions undergoing digital transformation. Creating a flexible, modular digital skills training framework that supports learners and industry responding to emerging digital opportunities. Providing retraining through online and face-to-face-learning options. Stimulating good practice sharing between industry and education training providers.

Work Packages within Theme 3

1. Modular Flexible Digital Masters Programme
2. Short tasters and CPD courses.

Theme Four - Widening Participation by Queen Mary University London

To boost equality and diversity in technology-related education and careers from early contact through to employment. Removing barriers in education to broaden reach, create new products and services that provide flexible opportunities for participation. A national focal point for educators and industry with expertise in widening participation, diversity and inclusion to share best practice and develop new joint initiatives. Achieve sustainable impact for women, young people, returners to work and local communities.

Work Packages within Theme 4

1. Creating a Pipeline
2. Tailored, Inclusive Curricula
3. Flexible Delivery Models
4. Understanding Barriers
5. Sharing Good Practice

Theme Five - Sharing and Sustainability led by University of Bath

To share outcomes and good practice, ensuring long-term sustainability of the IoC. This will include building up an evidence base of research, analysis and intelligence to anticipate future skills gaps. This theme includes the management of the consortium and administration of the project.

Work Packages within Theme 5

1. Observatory
2. Conferences, Events and Media
3. Long Term Sustainability
4. Educating the Educators
5. Future Projects
6. Consortium and Theme Leadership