

Competition Code: 2002_DCMS_CYBERASAP_Y4_P1

Total available funding is £800,000

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Edinburgh Napier University	MemCrypt	£31,930	£31,930

Project description - provided by applicants	
Awaiting Public Project Summary	

Funders Panel Date: 10/03/2020

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of Bristol	A Tamper Guard and Intrusion Monitor using Zenneck Electromagnetic Surfacewaves	£24,008	£24,008

Project description - provided by applicants	
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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of Strathclyde	Lupovis- A Wolf in Sheep's Clothing	£30,013	£30,013

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of Leeds	Artificial Behaviour Based Authentication for IoT	£26,643	£26,643

Funders Panel Date: 10/03/2020

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Project description - provided by applicants	
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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Lancaster University	Developer Security Essentials – Empowering Software Development Teams to Write Secure Code	£30,600	£30,600

Funders Panel Date: 10/03/2020

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Project description - provided by applicants

Our vision is to empower every software development team in the UK to make a substantial improvement in the security of the software they produce.

This project will commercialise the successful Developer Security Essentials package of workshops for software development teams: creating, monetising and marketing a version that can be used without direct support from the researchers. Further work will create a consultancy franchise and a 'solo practitioner' version to be used online.

Note: you can see all Innovate UK-funded projects here: https://www.gov.uk/government/publications/innovate-uk-funded-projects
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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of Kent	#ID Security for IoT	£31,753	£31,753

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Imperial College London	Watermarking Machine Learning Models	£27,804	£27,804

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of the West of England	Blockchain-enabled device mutual authentication in zero-trust Internet of Things (BazloT)	£30,799	£30,799

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Glasgow Caledonian University	Vulnerability Prioritisation Tool	£15,079	£15,079

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
City University of London	A triage playbook for assessing data privacy harm during initial personal data incident response	£27,902	£27,902

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Middlesex University	An Intelligent Threat Hunting System Based on Linux Security Hardening and Mandatory Access Control Policies.	£16,000	£16,000
University of West London		£16,000	£16,000

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of Southampton	CyberHelper	£32,000	£32,000

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University College London	Service Resilience Capability Assessment Tool (SR-CAT)	£30,718	£30,718

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Bournemouth University	Digital Passport for Accessible Authentication (DP4AA)	£31,612	£31,612

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of the West of England	Strengthening Cyber Science Knowledge and Teaching from non-STEM perspectives for school pupils	£26,737	£26,737

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
London Metropolitan University	Institutional Trust, Secure and Scalable Sharing of Clinical Data in Healthcare Systems	£29,500	£29,500

Project description - provided by applicants

Vision

To develop a model and implement a prototype of a distributed ledger for trustworthy, secure and scalable sharing of medical data using blokchain technology as a preparation for commercialization and spinning-out of a new start-up company.

Key Objectives

- Identify participating institutions and establish contacts with potential partners
- Analyse the need for shared data and formulate requirements
- Specify a typical scenario for communication in generation, sharing and using clinical data
- Formulate a value proposition for addressing the needs of the organisations involved
- Perform an initial market research of the proposed solution
- Validate the proposed solution against the market segments identified

Main areas of focus

- Organisations, needs for external collaborations and role within the healthcare system
- Clinical data, operations and trust with respect to collaborative medical information processing
- Information, models and data access rights with respect to security and privacy of the information
- Costs, prices and potential market for collaborative solutions based on blockchain technologies

Innovation

- Based on trustworthy sharing of the information rather than data exchange
- Uses homomorphic encryption rather than data anonymization
- Utilizes open Catalyst framework for extendibility and scalability without IPR restrictions
- Relies on the expert support from UK/Ireland Blockchain Group and the vendor of Catalyst Framework



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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of Leeds	Developing a Quantum-inspired Key Distribution System	£17,287	£17,287

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of Wolverhampton	CyberMIND- AI based application to monitor and predict stress levels	£31,713	£31,713

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of Liverpool	Flexible Querying of Encrypted Graph Databases	£12,172	£12,172

Project description - provided by applicants

The aim of this competition is to facilitate the commercialization of the innovative cybersecurity ideas coming from an academic research base. The definition of the cybersecurity in the competition description includes `to mean protecting information systems..., the data on them...from unauthorized access.'

That is exactly the aim of our proposal - to develop and commercialize a solution for protecting the data from unauthorized access during data processing. We propose to develop a system that would allow querying encrypted data (keeping it under protection, whenever possible), with flexible control of encryption level adjustments and minimal necessary information release.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of Huddersfield	SocialSPI – Training the Public about Sensitive Personal Information on Social Media	£19,770	£19,770

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
London Metropolitan University	Enhancing Network Intrusion Protection Systems with predictive capability for stopping unknown malicious attacks	£26,250	£26,250

Project description - provided by applicants

Our vision

Many real time detection and predictive solutions are not working seamlessly together and have limited predictive potential. We propose a dual system capable of forecasting network attacks just before they happen. It combines a signature-based network intrusion detection (NIDS) with an anomaly-based analytics and integrates them through additional correlation analysis of their event timelines.

- Key project objectives
- 1. Utilizing the experience of Londonmet Cyber Security Research Centre and bringing it to industry
- 2. Supporting the researchers and graduates of Londonmet for creating their own businesses
- 3. Assisting SMEs specialized in managing service providers for offering additional security analytics services on their premises
- 4. Establishing partnerships with vendors of network analysers for enhancing their products by incorporating intelligent agents
- Main areas of focus
- 1. Network Traffic Data Analysis in Real-time- Correlation Methods for Time Series
- 2. Cloud Applications Containerization
- 3. Cloud Service Workflows Management
- 4. Managed Service Provider Policies
- Innovation

Firstly, we are adding intelligence to network analysers by correlating the network communications on different layers. This would improve the detection rate. Secondly, we are containerizing the analytics engines. This will enable workflow automation and will provide additional analytical capabilities for managed service providers.



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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Imperial College London	Perfect Privacy-Preservation as a Service	£32,000	£32,000

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of Nottingham	AI-Driven Secured Connected and Autonomous Vehicles (AI-DRIVEs)	£31,781	£31,781
UBIPOS UK Limited		£0	£0

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of East London	Cyber Insurability Toolkit	£23,426	£23,426

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of Plymouth	Software Tooling for Maritime Cyber Risk Assessment	£25,092	£25,092

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Cardiff University	CyCIS- Cyber-Physical Critical Infrastructure Security	£31,395	£31,395

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
University of Essex	SensiChain – Secure Blockchain Alert Systems	£30,950	£30,950

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
London South Bank University	Secure VNF Service Management in 5G using Blockchain	£32,000	£32,000

Project description - provided by applicants	
Awaiting Public Project Summary	