



CYBER|IRELAND
IRELAND'S CYBER SECURITY CLUSTER

CYBER SECURITY R&D PROVIDERS



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UCD Centre for Cybersecurity and Cybercrime Investigation, University Research Group, University College Dublin

UCD Centre for Cybersecurity & Cybercrime Investigation (CCI) is a world-class organisation with strong and well-established collaborative relationships with both public and private entities. Since 1998, we have worked closely with law enforcement, supporting the fight against cybercrime through a range of capacity building solutions including training, education, forensic tool development and targeted research.

CCI has excellent relationships with both national and international law enforcement agencies, and has also worked with Europol, INTERPOL, the OSCE and the Council of Europe on delivering solutions to law enforcement units involved in investigating cybercrime. CCI is a founding member of the European Cybercrime Training & Education Group (ECTEG), and in partnership with this group has developed a range of training resources covering all cybercrime areas.

CCI has also established long-term relationships with the Banking & Payments Federation Ireland and the Department of Communications, Climate Action and Environment, providing consultancy services, technical solutions and strategic advice on all cyber related areas.

Cyber Security Research Domain

- Education and Training
- Operational Incident Handling and Digital Forensics
- Identity and Access Management
- Security Management and Governance
- Network and Distributed Systems
- Software and Hardware Security Engineering
- Other, please specify
- Open source intelligence
- Threat Intelligence and information sharing

Applied Industry Sectors

- ICT & Digital Infrastructure (incl. Telecoms)
- Government & Public Authorities
- Financial Services
- Defense
- Energy & Utilities
- Public Safety (Police, Emergency Services, etc.)

Applications & Technologies Dimension

- Hardware technology (RFID, chips, sensors, routers, etc.);
- Industrial Control Systems (e.g. SCADA);
- Information Systems;
- Internet of Things;
- Operating Systems;



UCD Centre for Cybersecurity
and Cybercrime Investigation
Lárionad um Chibearshlándaíil agus
Imscrúdú Cibearchoireachta UCD

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CeADAR

Technology Centre, University College Dublin

CeADAR is the National Centre for Applied Artificial Intelligence. Funded by the Irish Government, CeADAR has more than 90 member companies across a wide span of industries and has been recently selected by the European Commission to be a designated European Digital innovation Hub in AI. The primary work of the Centre is on cutting-edge applied research, and developing and deploying industry prototypes and solutions to companies. CeADAR is also very active in European research projects, spinouts, industry upskilling and has its own high-performance computing infrastructure.

CeADAR has designated machine learning in cybersecurity as one of its strategic themes, and has developed its capacity in building machine learning based models to protect computer systems. The researchers at CeADAR have carried out research projects in malware detection, intrusion detection, and side-channel attacks and have published highly cited scientific papers in cybersecurity.

The centre collaborates with multiple cybersecurity groups: UCD CCI, UCD Forensics and Security Research Group, CSIT at QUB, and IBM security. Moreover, CeADAR operates within UCD, Ireland's main centre in cybersecurity.

Cyber Security Research Domain

- Data Security and Privacy
- Operational Incident Handling and Digital Forensics
- Security Management and Governance
- Security Measurements

Applied Industry Sectors

- Government & Public Authorities
- Health
- Financial Services
- Energy & Utilities
- Supply Chain (raw materials, components, retail)
- Space

Applications & Technologies Dimension

- Artificial intelligence
- Big Data
- Blockchain and Distributed Ledger Technology (DLT)
- Embedded Systems
- Human Machine Interface (HMI)
- Information Systems



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CONNECT

Research Centre / SFI Centre, Trinity College Dublin

CONNECT is the world leading Science Foundation Ireland Research Centre for Future Networks and Communications. CONNECT brings together world-class expertise from ten Irish academic institutes to create a one-stop-shop for telecommunications research, development and innovation. **Cybersecurity** is one of our research themes, both within a standalone working group and horizontally across many of our other research themes, of **Dependable Networks, Sustainable IOT, Link Performance, Customised Networks, Data-Driven Optimisation and Management, Network Ecologies, Smart Cities, Connected Autonomous Vehicles and Quantum & Satellite Communications**. **CONNECT can assist industry in all of these areas.**

As an SFI Research Centre, we engage in collaborative research with industry partners, which we can co-fund from our SFI funding. We engage with over 50 companies including large multinationals, SMEs and start-ups. CONNECT has significant research infrastructure including its Pervasive Nation and Open Ireland testbeds, and individual institutions within CONNECT have their own research infrastructure, including the fixed and mobile Cyberranges at MTU in Cork. CONNECT comprises over 250 researchers at all career levels from MSc and PhD students, up to our 46 Funded Investigators and 19 Principal Investigators at eight of Ireland's leading universities, who are our research leaders.

Cyber Security Research Domain

- Data Security and Privacy
- Education and Training
- Network and Distributed Systems
- Software and Hardware Security Engineering
- Trust Management, Assurance and Accountability
- Quantum Encryption

Applied Industry Sectors

- Government & Public Authorities
- Health
- Financial Services
- Energy & Utilities
- Supply Chain (raw materials, components, retail)
- Space

Applications & Technologies Dimension

- Artificial intelligence
- Big Data
- Blockchain and Distributed Ledger Technology (DLT)
- Cloud and Virtualisation
- Embedded Systems
- Hardware technology (RFID, chips, sensors, routers, etc.)
- High-performance computing (HPC)
- Human Machine Interface (HMI)
- Industrial Control Systems (e.g. SCADA)
- Information Systems
- Internet of Things
- Mobile Devices
- Operating Systems
- Pervasive Systems
- Quantum Technologies
- Robotics
- Satellite systems and applications
- Vehicular Systems

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Innovation Value Institute

University Department, Maynooth University

IVI's mission is to research, develop and disseminate empirically proven and industry validated best practice for Digital Transformation through a unique open innovation collaboration between leading academic and industry practitioners.

In terms of our research area and expertise, we focus on Cyber and Information security, risk, and data governance research. Our expertise enables us to assist industry with capability maturity frameworks and management, assessments, and international benchmarking, as well as having open innovation, community networks and information sharing.

We are funded through various sources including industry, SFI, Enterprise Ireland, and Horizon Europe. This funding has allowed us to develop numerous projects such as the establishment of the Information Sharing and Analysis Centre (ISAC) for the Irish local government sector and the development of the International Cyber security benchmark.

Cyber Security Research Domain

- Assurance, Audit and Certification
- Data Security and Privacy
- Education and Training
- Human Aspects
- Security Management and Governance
- Security Measurements
- Organisational Capability and Management

Applied Industry Sectors

- ICT & Digital Infrastructure (incl. Telecoms)
- Government & Public Authorities
- Health
- Financial Services
- Smart Ecosystems (Infrastructure, Networks, cities, vehicles)
- Supply Chain (raw materials, components, retail)
- Tourism, Food and Drink

Applications & Technologies Dimension

- Artificial intelligence
- Big Data
- Cloud and Virtualisation
- Information Systems



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RÍOMH / NIMBUS

University Research Group, Munster Technological University

The NIMBUS research centre in Munster Technological University (MTU) is one of Ireland's research centres focused on Cyber-Physical Systems and IoT. The research RÍOMH (Intelligent Secure Systems) is a research group located in the NIMBUS centre with a focus on the investigation, design & development of secure, scalable communication infrastructures; abstractions; and algorithms that optimise the delivery of services, and provision resources end-to-end. NIMBUS/RÍOMH, with 40 researchers and engineers, is managed by staff with extensive national, international and industry R&D experience in national, EU and industry-funded research projects. NIMBUS budget of competitively won research funding is approx. €4.5 Million per year and has a network of over 200 companies in Ireland and Europe, completing on average 60 projects per year.

NIMBUS/RÍOMH host a private cloud infrastructure and CYBER-RANGE supporting a range of attack scenarios for skills, training and research and a state-of-the-art GPU infrastructure optimized for DL/ML workloads, accessible through a simple Web interface for end users reducing the complexity.

MTU is the host institution of Cyber Ireland a national cyber security cluster in Ireland funded by IDA Ireland (Ireland's inward investment promotion agency).

Cyber Ireland represents the needs of the cyber security sector across the country and addresses key challenges including skills needs, research and the development of a national community which connects industry, academia and government. MTU is also the lead partner in Higher Education Authority, Human Capital Initiative funded project called Cyber Skills, which aims to address the critical skills shortage of cyber security professionals in Ireland.

Cyber Security Research Domain

- Cryptology
- Data Security and Privacy
- Education and Training
- Security Management and Governance
- Network and Distributed Systems
- Software and Hardware Security Engineering
- Technology and Legal Aspects
- Trust Management, Assurance and Accountability

Applied Industry Sectors

- ICT & Digital Infrastructure (incl. Telecoms)
- Health
- Smart Ecosystems (Infrastructure, Networks, cities, vehicles)
- Energy & Utilities
- Supply Chain (raw materials, components, retail)
- Maritime
- Space

Applications & Technologies Dimension

- Artificial intelligence
- Blockchain and Distributed Ledger Technology (DLT)
- Cloud and Virtualisation
- Embedded Systems
- Internet of Things
- Quantum Technologies
- Satellite systems and applications
- Supply Chain

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engCORE & compuCORE Research Centres

University Research Centre, South East Technological University

Carlow Campus

engCORE is a multidisciplinary research cluster that provides a focal point for the diverse research interests of the Faculty of Engineering. One of the thematic areas of research is Cybersecurity for Industrial, Automation and Control Systems.

compuCORE is a multidisciplinary research group with researchers and professionals with extensive industrial experience across diverse domains. One area of research is focused on the area of blockchains and distributed ledgers.

Cyber Security Research Domain

- Operational Technology Cybersecurity (OTSec)
- Network and Distributed Systems
- Blockchain and Distributed Ledger Technology (DLT)

Applied Industry Sectors

- Transportation
- Smart Ecosystems (Infrastructure, Networks, cities, vehicles)
- Energy & Utilities
- Supply Chain (raw materials, components, retail)
- Network and Distributed Systems
- Trust Management, Assurance and Accountability

Applications & Technologies Dimension

- Artificial intelligence
- Cloud and Virtualisation
- Embedded Systems
- Hardware technology (RFID, chips, sensors, routers, etc.)
- Human Machine Interface (HMI)
- Industrial Control Systems (e.g. SCADA)
- Internet of Things
- Robotics
- Supply Chain
- Vehicular Systems
- Government & Public Authorities
- Health
- Financial Services



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UCC CyberSecurity Group

University Research Group - University College Cork

The UCC CyberSecurity research group is based in the School of Computer Science & IT, where computer security has been a topic of research and teaching for over thirty years. The CyberSecurity group collaborates with the CONNECT and Insight SFI research centres, and is involved in two SFI Centres for Research Training: ADVANCE and AI. The School is also a member of the Cyber Ireland cluster. Internationally, the group has an extensive network of collaborations with foreign institutions and research centres, both in the EU and further afield.

The CyberSecurity group currently consists of three permanent academics, and over 20 PhD and Post-doctoral researchers, all funded through national and international research projects. Research in the group is funded by several grants by Science Foundation Ireland (including the PVAsec Frontiers for the Future project), Enterprise Ireland/Department of Enterprise (such as the HOLISTICS Disruptive Technologies Innovation Fund project), and the European Union, both in Horizon 2020 (e.g. BRAINE project) and Horizon Europe (e.g. SECURED and CLEVER projects).

The CyberSecurity group actively collaborates with several industry partners, from start-ups and SMEs to large multinationals. Collaborations take place through joint projects, and direct industry funding. Most PhD students in the group spend 3 to 6 months in industry placements as part of these collaborations.

The group's research is leading internationally in areas including privacy and security of IoT, smart and embedded devices; cryptography; and hardware and systems security. The group research results feature regularly in top-ranked security journals and international conferences.

Cyber Security Research Domain

- Cryptology
- Data Security and Privacy
- Education and Training
- Identity and Access Management
- Network and Distributed Systems
- Software and Hardware Security Engineering
- Security Measurements
- Theoretical Foundations of Security
- Analysis and Design
- Trust Management, Assurance and Accountability

Applied Industry Sectors

- ICT & Digital Infrastructure (incl. Telecoms)
- Government & Public Authorities
- Health
- Defense
- Transportation
- Smart Ecosystems (Infrastructure, Networks, cities, vehicles)
- Energy & Utilities
- Audiovisual and Media
- Public Safety (Police, Emergency Services, etc.)

Applications and Technologies Dimension

- Artificial intelligence
- Big Data
- Blockchain and Distributed Ledger Technology (DLT)
- Cloud and Virtualisation
- Embedded Systems
- Hardware technology (RFID, chips, sensors, routers, etc.)
- Human Machine Interface (HMI)
- Industrial Control Systems (e.g. SCADA)
- Information Systems
- Internet of Things
- Mobile Devices
- Operating Systems
- Pervasive Systems
- Vehicular Systems

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Confirm - SFI Research Centre for Smart Manufacturing University Limerick

CONFIRM believes in creating a community of practice where industry, researchers, and the general public can learn about smart manufacturing and industry 4.0. We have an extensive researcher network that spans 9 research partner institutes. Across our partner institutes, we have an array of world leading Principal Investigators, researchers and cutting-edge testbeds to enable industries' transformation towards becoming world-leaders in Smart Manufacturing. To date, CONFIRM has secured €45M in funding with over 200 industry partners engaged through co-funding of targeted research projects. Though operating as a national centre,

CONFIRM Headquarters is based in Limerick at the University of Limerick, in the Mid-West region of Ireland. Confirm has a number of key research competencies that play directly into the Manufacturing and Supply Chain industries, including Data Analytics, Process Control, Security systems, Enterprise Modelling & simulation, Software systems, Network systems & IOT, Sensors, Robotics & Controls, and Material Processing. The centre is situated in close proximity to an international airport and various motorways making CONFIRM easily accessible for national and international businesses.

Cyber Security Research Domain

- Assurance, Audit and Certification
- Data Security and Privacy
- Education and Training
- Operational Incident Handling and Digital Forensics
- Human Aspects
- Security Management and Governance
- Network and Distributed Systems
- Software and Hardware Security Engineering
- Security Measurements
- Technology and Legal Aspects
- Theoretical Foundations of Security Analysis and Design
- Trust Management, Assurance and Accountability
- Security Management and Governance
- Network and Distributed Systems

- Network and Distributed Systems
- Software and Hardware Security Engineering
- Security Measurements
- Technology and Legal Aspects
- Theoretical Foundations of Security Analysis and Design
- Trust Management, Assurance and Accountability

Applied Industry Sectors

- ICT & Digital Infrastructure (incl. Telecoms)
- Health
- Financial Services
- Transportation
- Smart Ecosystems (Infrastructure, Networks, cities, vehicles)
- Energy & Utilities
- Supply Chain (raw materials, components, retail)
- Audiovisual and Media

Applications & Technologies Dimension

- Artificial intelligence
- Big Data
- Blockchain and Distributed Ledger Technology (DLT)
- Cloud and Virtualisation
- Embedded Systems
- Hardware technology (RFID, chips, sensors, routers, etc.)
- Human Machine Interface (HMI)
- Industrial Control Systems (e.g. SCADA)
- Information Systems
- Internet of Things
- Mobile Devices
- Operating Systems
- Pervasive Systems
- Robotics
- Supply Chain
- Vehicular Systems

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Walton Institute for Information and Communication Systems Science Research Institute at South East Technological University Waterford Campus

Walton Institute is a cornerstone of ICT research and development activity in Ireland since 1996. Based in the idyllic setting of South East Technological University (SETU)'s West Campus at Carriganore, Walton Institute undertakes cutting edge research blending fundamental science with real world commercial applications. Formerly known as the Telecommunications Software & Systems Group (TSSG), the aim of the Institute is to investigate futuristic next-generation technologies, to verify their capabilities and applicability for today's society, and to work in collaboration with industry to ensure their commercialisation. Walton Institute encourages inter-disciplinary research with prominent national and international reputation and competitiveness firmly positioning the South East of Ireland on the Knowledge Economy map.

Involved in research and innovation projects related to data usage control, data sharing and data governance technologies related to ICT security in the areas of distributed trust and reputation management, digital forensics, privacy and data protection controls, networks and social media security threat mitigation.

Walton has a proven track record in translating world class research into market ready products and services and has established an ecosystem of mobile service companies in the Southeast of Ireland and beyond, creating several hundred jobs directly and indirectly in the last twenty years.

Cyber Security Research Domain

- Data Security and Privacy
- Operational Incident Handling and Digital Forensics
- Human Aspects
- Identity and Access Management

- Identity and Access Management
- Network and Distributed Systems
- Software and Hardware Security Engineering
- Technology and Legal Aspects
- Trust Management, Assurance and Accountability

Applied Industry Sectors

- ICT & Digital Infrastructure (incl. Telecoms)
- Health
- Financial Services
- Transportation
- Smart Ecosystems (Infrastructure, Networks, cities, vehicles)
- Energy & Utilities
- Audiovisual and Media
- Maritime
- Space

Applications & Technologies Dimension

- Artificial intelligence
- Big Data
- Blockchain and Distributed Ledger Technology (DLT)
- Cloud and Virtualisation
- Hardware technology (RFID, chips, sensors, routers, etc.)
- High-performance computing (HPC)
- Human Machine Interface (HMI)
- Information Systems
- Internet of Things
- Mobile Devices
- Operating Systems
- Pervasive Systems
- Quantum Technologies
- Robotics
- Satellite systems and applications
- Supply Chain
- Vehicular Systems

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ATU CybRes, ATU Campuses

ATU CybeRes is a collective of active ATU researchers in Security, DevSecOps and all things Cyber. Our personnel come from each of the original, regional areas providing a broad scope and interest in cybersecurity topics. **ATU CybeRes** members were core to organising the inaugural Cyber Research Conference Ireland (CRCI) with NUIG, held at the Galway campus in April 2022. CRCI is IEEE sponsored and will take place at the Letterkenny campus in 2023. Our members are involved in regional, national and international cybersecurity groups, creating and expanding linkages in industry and academia.

CybRes cyber security research area & expertise:

- Machine learning and Artificial Intelligence
- DevSecOps
- Secure Network Architecture
- Internet-of-Things
- Internet-of-Medical-Things
- Electronics and Robotics

CybRes can assist industry with:

- Electronics, wireless technologies and embedded software that routinely deliver practical product and system solutions to Irish industry within WiSAR
- Cybersecurity specific advice on governance, risk and compliance.
- Network infrastructure and architecture
- Secure healthcare provisioning in the community (Internet-of-Medical-Things)
- Internet-of-Things secure development
- Machine learning and Artificial Intelligence implementation



Ollscoil
Teicneolaíochta
an Atlantaigh

Atlantic
Technological
University

Cyber Security Research Domain

- Assurance, Audit and Certification
- Data Security and Privacy
- Security Management and Governance
- Network and Distributed Systems
- Software and Hardware Security Engineering
- Trust Management, Assurance and Accountability

Applied Industry Sectors

- ICT & Digital Infrastructure (incl. Telecoms)
- Health
- Smart Ecosystems (Infrastructure, Networks, cities, vehicles)
- Maritime

Applications & Technologies Dimension

- Artificial intelligence
- Embedded Systems
- Industrial Control Systems (e.g. SCADA)
- Internet of Things
- Operating Systems
- Robotics

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Cyber Security Hub Collaboratory at TU Dublin

Collaboratory is an innovation, technology, and industry solutions hub from Technological University Dublin, in partnership with Enterprise Ireland, and specialises in Cyber Security, Internet of Things and Artificial Intelligence. We provide industry partners with research and development capacity; skills development assistance; access to technical development, prototyping and live testing facilities; and access to market development support in the areas of Cyber Security, IoT and AI, to increase innovation, productivity, and competitiveness. Our infrastructure includes:

- Industry scale training SOC
- R&D space and facilities
- Maker space and prototyping laboratory
- IoT testbed
- Cyber sand box
- Venue and facilities rental for various events, product demonstrations, hackathons, workshops, and competitions

We offer expertise in metadata and its consequences on privacy & security, security monitoring, secret management, and OS security. We can work with industry partners to develop new security protocols and new security monitoring solutions, hardening the security of existing operating systems, and development of secure products and processes.

We have expertise in the design, evaluation, and development of secure solutions for connected devices found in the Internet of Things (IoT). We can assist industry with performing cyber security threats and risk assessments of IoT connected devices, developing measures to eliminate vulnerabilities in the IoT infrastructure, evaluating and implementing security solutions for IoT devices, and developing architectures, security strategies, guidelines, standards, and processes.



Cyber Security Research Domain

- Data Security and Privacy
- Education and Training
- Human Aspects
- Software and Hardware Security Engineering
- Security Measurements
- Theoretical Foundations of Security Analysis and Design
- Transmission and communication of Smart devices

Applied Industry Sectors

- Government & Public Authorities
- Health
- Defense
- Transportation
- Smart Ecosystems (Infrastructure, Networks, cities, vehicles)
- Maritime
- Tourism, Food & Drink
- Research & Education

Applications & Technologies Dimension

- Artificial intelligence
- Blockchain and Distributed Ledger Technology (DLT)
- Cloud and Virtualisation
- Embedded Systems
- Information Systems
- Internet of Things
- Mobile Devices
- Operating Systems
- Quantum Technologies
- Robotics

Vehicular Systems

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Business Information Systems Discipline, J.E. Cairnes School of Business & Economics, University of Galway

The Business Information Systems (BIS) Discipline of the University of Galway is a recognised centre of excellence in research and teaching both nationally and internationally since 1979. The BIS Discipline consistently ranks in the Top 150 universities in the world in Information Systems (IS). Its faculty publish in leading peer-reviewed academic journals and international conferences, and have attracted substantial research funding from Enterprise Ireland, Science Foundation Ireland, Irish Research Council, EU Horizon 2020, Erasmus, US Fulbright Program and other sources.

The grand challenge that BIS addresses is to understand and manage the risks, challenges and opportunities associated with digitalisation. Among these, cyber security represents one of the main focus areas for the discipline. Research expertise in this area includes organisational security culture, management of insider threats, vulnerability to ransomware attacks, cybersecurity analytics and threat intelligence, value and competitive implications of data breaches, ROI of cyber security investments, and privacy issues.

Industry partners include HPE Galway, Fidelity Investments, IBM, Centripetal, NetFort, Avaya, State Street and CBE.

Cyber Security Research Domain

- Data Security and Privacy
- Education and Training
- Human Aspects
- Security Management and Governance
- Security Measurements
- Theoretical Foundations of Security Analysis and Design

Applied Industry Sectors

- ICT & Digital Infrastructure (incl. Telecoms)
- Government & Public Authorities
- Health
- Financial Services
- Tourism, Food & Drink
- Public Safety (Police, Emergency Services, etc.)

Applications & Technologies Dimension

- ICT & Digital Infrastructure (incl. Telecoms)
- Government & Public Authorities
- Health
- Financial Services
- Tourism, Food & Drink
- Public Safety (Police, Emergency Services, etc.)



OLLSCOIL NA GAILLIMHÉ
UNIVERSITY OF GALWAY

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