



# Oxford Cyber Security for Business Leaders Programme

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# About the Oxford Cyber Security for Business Leaders Programme

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In the last two decades, as digital adoption has spread across the world and radically transformed how organisations, governments and citizens interact, securing cyberspace has become a global, multi-billion dollar challenge. Cyber attacks have grown exponentially in frequency, complexity and sophistication, disrupting business, costing billions in damage, and sowing deep distrust. The problem continues to accelerate. As more business is conducted online and processes are automated, the more vulnerable organisations are open to attack.

The Oxford Cyber Security for Business Leaders Programme prepares leaders from all industries for the increasingly complex future of cyber security to look beyond fear and create a competitive cyber strategy. Participants will gain a full understanding of the challenges and potential of cyber, along with the frameworks and vocabulary to enable strategic decision-making to help secure their organisation's cyber-resilient future.

Over six modules, participants will access key principles, frameworks and research from thought leaders and faculty from across the University of Oxford. Participants will learn how to build a cyber-security strategy based on growth and trust, creating competitive advantage for their organisation.





# Programme themes

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## Success you can count on

- Bid farewell to isolation in the virtual realm, as an abundance of academic, peer, and pastoral support will be at your fingertips, ensuring a robust and enriching learning experience
- Immediately applicable to your career

‘Understanding how to manage cyber-risk whilst embracing digital opportunity is crucial if we are to remain resilient in the face of growing cyber-attacks. This programme is designed to help current and future business leaders develop awareness of core aspects of cybersecurity, contextualise reports on new threats, and make informed decisions on how to react to emerging tech trends. It will assist leaders in becoming more awake to the socio-technical challenge of cybersecurity, to be more effective in taking a lead role in ensuring it is embedded into the DNA of business, and to be able to create and innovate new digital solutions responsibly.’

— **Sadie Creese**, Professor of Cyber Security, Department of Computer Science,  
University of Oxford Programme

## Themes include:

- **Cyber fitness and user responsibility**
- **Digital disruption and transformation**
- **Resilience**
- **Analysing threats and vulnerabilities**
- **Risk Management**
- **Corporate social responsibility, responsible innovation, ethical AI**
- **Mentorship of senior professionals**

# Programme curriculum

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**Module 0:**  
Orientation

An overview of the programme, the platform used to deliver it, and the community of fellow innovators and leaders.

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**Module 1:**  
Core Cyber  
Security  
Concepts

Gain an ability to evaluate and understand cyber security context within the needs of a business. Participants will understand what it means to be cyber fit, how to manage 'smart' vs. 'careless' risk, and to ensure that cyber security is integrated into the culture of their organisations. Primary subjects include:

- Cyber risk
  - Types of cyber harm
  - Cyber fitness
  - Cyber security and digital disruption
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**Module 2:**  
Threats and  
Vulnerabilities

Deepen your understanding of the threats to your organisation - from insiders, hackers and cyber criminal organisations to nation states. Learn how to use threat intelligence to analyse cyber risks, and a leading framework to better prepare your organisation. Primary subjects include:

- Cyber crime
  - Insider threats
  - Types of cyber attacks
  - Ransomware
  - Threat intelligence
  - Threat | Vulnerability | Risk | Harm framework
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**Module 3:**  
Globalisation  
and Supply  
Chain Cyber  
Security

Confront the cyber risks of globalisation and integrated supply chains through deep exploration of emerging challenges of AI and quantum computing. Primary subjects include:

- Nation state actors
- Supply chain security
- Emerging threats

# Programme curriculum

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## **Module 4:**

### **Cyber Security Controls and Operations**

Build skills to implement and strengthen cyber operations and architectures. Explore the cyber maturity model and gain an understanding of what you need to do to take your organisation to the next level. Primary subjects include:

- Building blocks of cyber operations
- Incident response
- Cyber maturity model
- Cyber architectures - quantum

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## **Module 5:**

### **Responsible Innovation and Digital Opportunity**

Explore the ethical dimensions of the new cyber world, and how to innovate responsibly for the benefit of all. Exercise persuasive skills to position your cyber venture for positive future impact, and confront cyber issues with complex technical and social implications. Primary subjects include:

- Ethical issues of AI
- Responsible innovation
- Privacy
- Cyber security and digital disruption
- Board room responsibilities

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## **Module 6:**

### **Resilience and Strategic Responses**

Develop the skills to take smart risks and to make your organisations more resilient against ever-evolving cyber threats. Explore the cyber implications of corporate M/A and rapid growth, and complete an experiential learning team capstone project. Primary subjects include:

- Smart risks
- Software acquisition
- Corporate M/A
- Future scenarios

# Programme perspectives

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## Is the programme right for you?

### **You will benefit from this programme if you are:**

- Are a business leader, executive, or director in a private or public sector organisation who wants deeper insight and practical knowledge to employ cyber security for both short- and long-term business strategies
- Interact with consumer data, and/or are responsible for compliance with data privacy regulations such as the General Data Protection Regulation (GDPR) or the California Consumer Privacy Act (CCPA)
- Are transitioning to a new job, or are considering a career move in which strong cyber strategy skills would be useful
- Want to learn alongside and build a professional network with like-minded executives whose titles include:

### **Participant titles include:**

- **Chief Executive Officer**
- **Chief Information Officer**
- **Chief Security Officer**
- **Programme Manager**
- **Managing Director**
- **Digital Innovation Officer**
- **Senior Manager**
- **Financial Analyst**
- **Vice President**
- **Project Manager**
- **Digital Product Director**
- **Compliance Officer**



# The learning journey

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Each week you will engage in a mixture of:

- Digital videos and audio content, augmented by material which you can download in full to review as you have time
- Quizzes and exercises designed specifically to help you understand and retain new information
- Dialogue with expert instructors and your peers via discussion forums and small group sessions
- Real-life examples that help you understand how concepts delivered in the course material can be applied to your work environment



# Who you'll learn from

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Our programme faculty brings together thought leaders from Saïd Business School and the wider University of Oxford, with industry experts and successful entrepreneurs, to facilitate rapid application of theory to practice.

## Programme director



### **Sadie Creese**

*Professor of Cyber Security, Department of Computer Science,  
University of Oxford*

Sadie Creese is Professor of Cyber Security in the Department of Computer Science and a globally recognised expert on operational aspects of cyber security. She is the founding Director of the Global Cyber Security Capacity Centre at the Oxford Martin School, and a governing body Fellow of Worcester College, Oxford. At Saïd Business School, she contributes to the Oxford MBA and executive education programmes.

Sadie's extensive research includes threat modelling and detection, resilience strategies for business, security architectures, and national cyber security capacity. She was part of the strategic advisory board for the World Economic Forum's Cyber Security Centre, and has acted as an advisor to many governments and businesses. In 2020 she led Oxford's contribution to a Foresight Review of cyber security for the Industrial Internet of Things, and the WEF Future Series Insight Report on Cybersecurity, emerging technology and systemic risk.

## Guest speakers

More than 30 global experts share critical insights to help you understand the risks and benefits of cyber security practices.



# Saïd Business School

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Saïd Business School, University of Oxford offers an online learning experience that is grounded in cognitive and neuroscientific research, and uses next-generation AI technologies to help busy professionals learn faster and more efficiently.

Oxford Saïd blends the best of new and old. We are a vibrant and innovative business school, yet deeply embedded in an 800-year-old world-class university. We create programmes and ideas that have global impact. We educate people for successful business careers, and as a community seek to tackle world-scale problems. We deliver cutting-edge programmes and ground-breaking research that transform individuals, organisations, business practice, and society.

We seek to be a world-class business school community, embedded in a world-class university, tackling world-scale problems.

## Oxford Saïd Online: Revolutionising Your Learning Journey

Oxford Saïd Online is a ground-breaking initiative by Oxford Saïd that reimagines online learning worldwide.

We integrate diverse digital experiences into a unified platform, pioneering innovative learning for practitioners seeking enriched perspectives.

Our flexible online programmes, structured in weekly modules, empower busy professionals to excel without compromising work and family commitments. At the outset of every week, your tutor team will bring to life the rich treasure trove of learning that will be at your fingertips and you'll be supported by a dedicated Success Advisor to ensure effective goal-setting and time management.

Our tailored approach thrives through subject expert tutors who guide discussions, address queries, and review assignments.

We offer a transformative journey through premium learning, lifelong community engagement and robust support networks.

Welcome to Oxford Saïd Online – where education meets empowerment.

# Getting started

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## Technical requirements

A modern desktop or laptop computer with the following features:

- Operating System: Microsoft Windows or macOS
- Browser: the latest version of Google Chrome, Mozilla Firefox or Microsoft Edge
- A working camera and microphone
- An internet connection with a minimum speed of 3 Mbps for both upload and download (10 Mbps is recommended)

Please note, devices other than a desktop or laptop computer are not supported.

## ID verification

Upon successful completion of the programme, to be eligible for a certificate from Saïd Business School you will need to verify your identity from within the online platform. Students will need to complete an ISO 27001-certified verification process, and will need a government-issued ID and a mobile phone or laptop with a camera.