

# Blockchain and Smart Contracts

*Engage customers, reduce costs, increase trust and security, and revolutionize the future of your business*

Blockchain technology promises to revolutionize how businesses interact with each other and their clients. Staying on top of these developments will be important for leaders looking to ensure they remain competitive with the latest technology. Blockchain has long been associated with the “peer-2-peer currency Bitcoin”, however, dedicated work from the likes of IBM, JP Morgan, Deloitte, and Microsoft are bringing this technology to a wide range of business applications.

Blockchain offers business the ability to create a shared environment, with other firms or their clients, without needing an intermediary or to outsource control of their data. This environment can then be used to deploy “smart contracts”, contracts that will implement business logic independently and verifiability.

## GOALS

This course will provide participants the ability to:

- Understand the world of blockchain and smart contracts and the implications for the future of business relationships;
- Explain how blockchain is revolutionizing whole industries internationally with deep dives into current use cases;
- Identify where blockchain technology could reduce costs, increase security, or engage consumers in the context of their current business practices;
- Understand the opportunities for their business to interact with wider developments in the blockchain world and generate value;
- Design trust-less systems for interacting with suppliers, clients, or business partners.

## PROGRAM

The course provides a high-level overview of the world of blockchain and the revolutionary power of smart contracts. A particular emphasis is placed on understanding the business case for blockchain technology and identifying the use cases.

### TOPICS COVERED

Not so humble beginnings: Bitcoin and the internet of money;

Ethereum: the world computer;

Smart contracts and decentralized applications;

Blockchain in practice: case studies and business cases;

Identifying transformational potential applications and the business case for blockchain;

Hyperledger Fabric and enterprise grade blockchain;

Big blockchain ideas;

Scalability, interoperability and the future of blockchain.

## TEACHING STAFF



### IAN SCOTT

BLOCKCHAIN SCIENTIST

*Dr. Scott is a quantitative economist with 12+ years of international experience in consulting and research covering economic analysis, data science and statistics, government policy, and market modelling throughout Europe, North America, and Asia.*

*Ian is passionate about the application of the economic and statistical sciences to real world problems. His research interests include decision making and modelling market behaviour in the energy sector, the application of blockchain technology, and the development of smart cities.*

*He is currently developing blockchain based solutions for several smart city applications including waste management, community currency, and Peer-2-Peer electricity trading.*

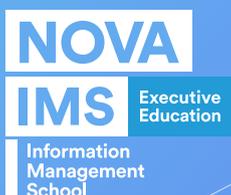
## CONTACTS

If you need more information about this program, please contact:

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Call to the national landline network



Learn more at:  
[www.novaims.unl.pt/blockchain-and-smart-contracts](http://www.novaims.unl.pt/blockchain-and-smart-contracts)



2<sup>nd</sup> Edition