

NORTH EAST ENGLAND - THE PLACE TO DELIVER RESILIENT BUSINESS

CYBERCRIME HAS BEEN RECOGNISED BY THE GOVERNMENT AS ONE OF THE KEY RISKS TO BUSINESS.

All businesses are at risk and those that have considered the potential impact of a security breach and taken steps to minimise the way in which they can be affected are more likely to survive a cyber security incident.

Most cyber attacks are opportunistic than targeted; the risk can be minimised through staff training, education, design, testing, research, audit, compliance, and forensics - we're strong in all of these in the North East.

CYBER (TALENT) IN THE NORTH EAST

The North East is well placed to grow cyber related businesses on the back of its high growth tech sector and collaborative culture.

Over 50 companies offering cyber security services.

Cyber offers huge growth potential over the coming decade with estimates of expenditure by 2020 of 6% of global GDP.

This means

- for students: more job opportunities, in many disciplines, from advice to technical
- for businesses: more sales opportunities in a high growth area
- for those looking for a new challenge: a great, challenging and worthwhile career

CYBER CAREER TIPS

- Cyber is a continual learning and growth career
- Understand risk and keep up to date with vulnerabilities and mitigations
- Stay curious and keep learning
- You don't need to have studied computer science
- Entry level roles are emerging but generally experience in other areas of IT is needed

What employers look for

- Candidates that fit their organisations culture
- Positive attitude
- Creative problem solving and a good eye for detail
- Ability to work under pressure and meet deadlines
- Good communication and social skills
- Self-motivation – you'll probably be working on your own a lot and long hours

Stand out from your friends

- Practice thinking about threats, risk and mitigation and customer service
- Work experience / summer work
- Keep a log of what you do and build a 'portfolio' of your best work

Cyber affects all businesses of all sizes across all sectors.

CYBER SERVICES IN THE NORTH EAST

PAYMENT CARD STANDARDS AND PAYMENT/CREDIT CARD FORENSICS • DATA STORAGE AND PROCESSING FOR BLUE-CHIP COMPANIES AND HIGH-PROFILE INDIVIDUALS • ENSURING THE GOVERNMENT CAN COLLECT TAXES • LOCAL AND REGIONAL POLICE FORCES AND CYBERCRIME UNITS • KEEPING NHS, EMERGENCY SERVICES AND GOVERNMENT SYSTEMS AND DATA SECURE AND AVAILABLE • MAKING SURE A THIRD OF THE COUNTRY'S WORKERS CAN GET PAID • SAFE WI-FI FOR MOST OF THE WORLD'S TRAINS • SECURE E-COMMERCE, ON-LINE FINANCIAL TRANSACTIONS AND BANKING • SECURING LEADING LOTTERY, ONLINE GAMING, BINGO AND CASINO PLATFORMS • SECURING MANUFACTURING PROCESSES – FROM PASTIES TO BEER, WIND TURBINES AND CARS • SECURITY AND COMPLIANCE AUDITS • SECURITY AND COMPLIANCE CERTIFICATION (ISO 27001, 27017, BS10012, CYBER ESSENTIALS ETC.) • ANTI-FRAUD, SUPPORT AND EARLY-WARNING NETWORKS • INFORMATION SECURITY AND DATA PROTECTION ADVICE AND CONSULTANCY • LEGAL ADVICE AND INSURANCE • WORKPLACE RECOVERY CENTRES • VULNERABILITY AND PENETRATION TESTING • BUSINESS CONTINUITY CONSULTANCY AND REHEARSAL • AWARENESS TRAINING • PHISHING SIMULATION • PROTECTING NATIONAL INFRASTRUCTURE, WATER AND ENERGY SUPPLIES • MANAGED SECURITY SERVICES (SECURITY MANAGER AS A SERVICE)

THE NORTH EAST'S A GREAT CYBER PLACE

Great facilities, expertise and educational institutions

- 5 universities - two accredited Academic Centres of Excellence in Cyber Security (out of 17 in the UK)
- Over 400 students studying cyber related subjects
- Local research specialisations such as
 - Data
 - Fintech
 - Identity
 - Privacy
 - Trust
 - CCTV analysis
 - Digital build
 - Renewable and offshore energy
 - Advance manufacturing
- National Innovation Centre for Data
- National Innovation Centre for Ageing
- HMRC and DWP volume processing centres
- Highest proportion of students studying STEM subjects in the UK

ABOUT DYNAMO NORTH EAST

The north east's industry-led IT cluster

Brings together all sorts of people working in IT

- Schools
- Colleges
- Training providers
- Universities
- IT Companies
- Companies with IT sections
- Councils, health, emergency services, Government

Connects organisations with similar interests through events, conferences and awards

Dynamo's Cyber Achievements

- Secured core funding for the workstream
- #CyberFest18 – 5 events, 500 delegates
- Regular bi-monthly events
- School taster events
- #CyberFest19 - 11 events
- Cyber 101 bootcamp

- Two of the top three universities for startup businesses

Active local cyber scene

- Regional Police 'cyber volunteer' programme
- #CyberNorth and #cyberfest initiatives
- Active ISC² chapter
- Active OWASP chapter

People working in Cyber earn more than their peers

Cyber is one of the highest paying tech specialisations

- 6 vacancies for every candidate
- IT Security Officers can earn around £30,000IT
- Security Managers can earn around £72,000

Some initiatives we're working on

- **#CyberFest** is the North East's annual cyber festival held across multiple events in September. Growing in stature and attracting hundreds of delegates it is building the region's cyber credentials.
- **CyberPark** is a developing concept that enables companies that provide cyber related services to work collaboratively and provide services to meet national and international demand yet still remain competitive.
- The **Office for Rapid Cyber Advancement North East (ORCANE)** is a plan to replicate the London Office for Rapid Cyber Advancement in the region. This will see business, academia and government come together to create new cyber businesses in a supportive development environment.

- Business case for ORCANE and CyberPark



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