

CyBOK

The Cyber Security Body Of Knowledge



CyBOK and UK Cyber Security Research

Professor Andrew Martin
CyBOK Executive Board and
Department of Computer Science, University of Oxford

CyBOK Showcase 11th November 2024

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www.cybok.org

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Andrew Martin
CyBOK Executive Board



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Andrew Martin



Professor Andrew Martin

Professor of Systems Security

Governing Body Fellow, [Kellogg College](#)

T: 01865 2-83605

THEMES:

[Security](#)

COMPLETED PROJECTS:

[Trustworthy Logging for Distribu](#)
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Interests

I have been interested in security in distributed systems for some time. Mostly of late that's been explored through looking at applications of *Trusted Computing* technologies, particularly in cloud, mobile, and embedded applications - embodied now in the concept of the Internet of Things. With my students, I have been looking for the architectural elements and design patterns necessary to make trusted clouds and secure IoT a reality. These ideas have the potential to transform how we think about distributed systems and the security of information. I also have diversified interests around the security of systems and devices in distributed systems, cloud and IoT.

If you contact me about a DPhil place, please have something to say about what kind of research you would like to do - and why. Show me that you have a fair idea what doing research in these areas would entail. I'm looking for a couple of pages of technical discussion - not a narrative form of your CV. Make sure you show you have read and understood a few relevant published research papers.

Biography

I am on my third 'life' in Oxford: I studied for my first degree here, before working as an industrial Software Engineer at Praxis in



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Funding opportunity

A NetworkPlus to strengthen the cybersecurity research ecosystem

Opportunity status:	Closed
Funders:	Engineering and Physical Sciences Research Council (EPSRC)
Funding type:	Grant
Total fund:	£6,000,000
Maximum award:	£6,000,000
Publication date:	15 January 2024
Opening date:	16 January 2024 9:00am UK time
Closing date:	16 April 2024 4:00pm UK time

Last updated: 14 February 2024 - [see all updates](#)

Apply for funding to strengthen the UK's cyber security research ecosystem and develop its people. Proposals should be applicable and inclusive to the wide range of communities comprising this ecosystem.
You must be based at a UK research organisation eligible for Engineering and Physical Sciences Research Council (EPSRC) funding.

Timeline

- 16 January 2024 9:00am
Opening date
- 16 April 2024 4:00pm
Closing date
- June 2024
Expert review panel
- July 2024
Interview panel

Print this guidance or save as PDF





CRANE

NetworkPlus for Cyber Security Research



Engineering and
Physical Sciences
Research Council

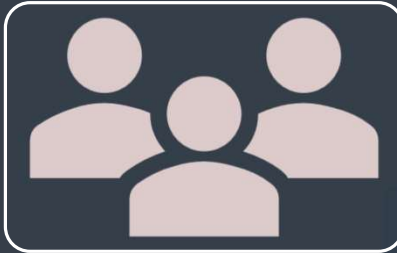


Headlines



identify emerging global trends and national strengths in cyber security

- rigorous community-led methodology



develop our inclusive research community

- regionally and nationally
- SIGs, themed workshops, community events



support career development

- cross-disciplinary



a connection-point

- for businesses, government, and the third sector
- nationally and internationally.



The team

Andrew Martin



Lynne Coventry



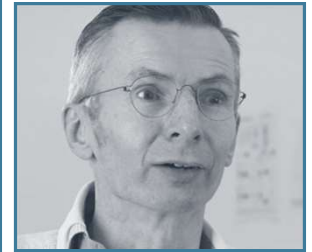
Adam Joinson



Steven Murdoch



Mark Ryan





Objectives

Help to deliver the UK **National Cyber Strategy** (Cyber Ecosystem; Technology Advantage)

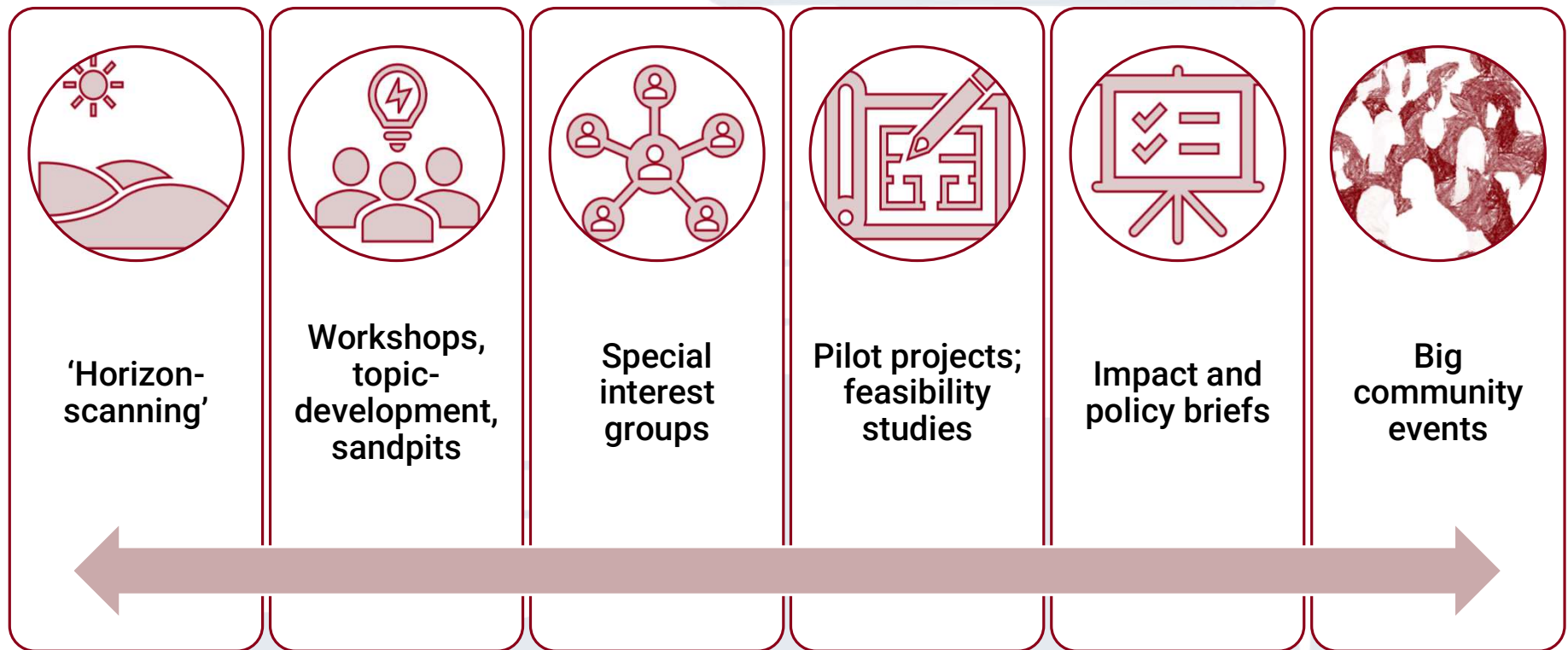
To support, develop, and nurture **research** in cyber security within and across academic disciplines, throughout the UK, with transformative challenge from wider stakeholder groups

Identify and articulate the need and opportunity for **significant/game-changing** new developments in cyber security

Promote the development of a **learned society in cyber security research** to support a long-term sustainable community



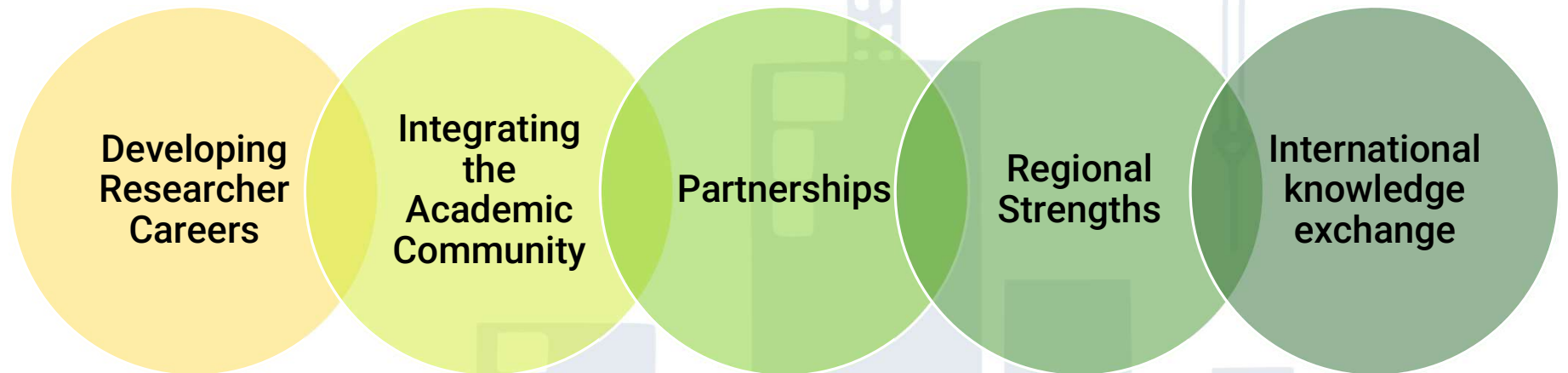
Approach



Governance: Executive (Lead and co-leads); CRANE Board; Independent Steering Group



Ecosystem: priorities



Mentoring scheme; E(i)CR opportunities; Shadow Board; Funding and admin support for grassroots
Purposeful events planning; national, regional, hybrid. Carbon footprint-aware. Diverse interaction modes.



Learned Society

- Cyber security research is not bounded: the need will not end.
- Community created by CRANE should not end either.
- Many activities can out-live the EPSRC funding.
- A new learned society is planned, to coordinate this.
- Emphasis on inter-disciplinary research in cyber security.
- Complementary to other professional societies.
- Details will develop through the lifetime of CRANE.



CyBOK project

CyBOK CIC

CRANE networkplus

Learned Society for Cyber Security Research

CRANE and CyBOK

- CRANE and CyBOK are entirely separate
 - Andrew Martin in the intersection of the two leadership groups
 - Both are *for the community, by the community*
- CyBOK concentrates on documenting established knowledge in cyber security
 - CRANE concentrates on research leading to new knowledge
- We will discover some benefits of co-evolution as time goes by
 - CyBOK KAs can help to describe CRANE themes
 - CRANE can help by proposing change requests to CyBOK



CRANE

NetworkPlus for Cyber Security Research



Engineering and
Physical Sciences
Research Council

We're hiring!



UNIVERSITY OF
OXFORD

UK date and time: 07-November-2024 17:30

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Job Details

CRANE Programme Manager (Chief Operating Officer)

Computer Science - Wolfson Building, Parks Road, Oxford, OX1 3QD

The University of Oxford is a stimulating work environment, which enjoys an international reputation as a world-class centre of excellence. Our research plays a key role in tackling many global challenges, from reducing our carbon emissions to developing vaccines during a pandemic. The Department of Computer Science at Oxford is renowned for pioneering research and teaching across diverse fields, consistently ranking among the best in the world. Our commitment to innovation drives us to tackle complex technological and societal challenges.

Are you ready to lead the administration of a transformative national project in cybersecurity research? As the CRANE Programme Manager, you will oversee the UK's Cybersecurity Research and Networking Environment (CRANE) project, funded by the EPSRC. You'll coordinate efforts to bring together researchers, industry, government, and third-sector partners, fostering an inclusive and impactful network that addresses the latest cybersecurity challenges.

What We Offer

As an employer, we genuinely care about our employees' wellbeing and this is reflected in the range of benefits that we offer including:

- An excellent contributory pension scheme
- 38 days annual leave
- A comprehensive range of childcare services
- Family leave schemes
- Cycle loan scheme
- Discounted bus travel and Season Ticket travel loans
- Membership to a variety of social and sports clubs
- Offers the opportunity for hybrid working, with a minimum of three days per week on-site to facilitate key roles in driving forward this high-impact initiative to strengthen the UK's cybersecurity research and project integration.
- CRANE project plan, ensuring that each phase of the project is supported by the University's research and development guidelines.

