

**Senior Research Associate – System-Level Security Assurance SCULI (2 Posts)**

Lancaster University is part of a 5-year £6.8 million EPSRC Programme Grant on “[Securing Convergent Ultra-large Scale Infrastructures (SCULI)](https://sculi.ac.uk/)” conducted jointly with Bristol and Oxford Universities, international collaborators CMU/Duke, RISE-Sweden, and industry partners BT, HP, Airbus, BAE and Vodaphone.

In future interconnected distributed systems, there is a need for new approaches to provide and assess security at runtime which complement existing security-by-design approaches. We need to consider the reality of dynamically changing systems, their evolving attack surfaces, and the new threats they are exposed to.

We seek to appoint 2 full-time post-doctoral research associates (starting Autumn 2025) as part of a team exploring fundamental new concepts to:

a) research interactions between security controls to enhance system security and

b) dynamically assess runtime security in complex distributed systems.

We target conceptual research along with experimental methods.

As a Programme Grant there is considerable flexibility in the research agenda to allow the right candidate to have significant leeway in scoping the research activities. This is a great opportunity for an individual to build a research career.

Key duties of this post include:

* Conducting original research to provision security in future complex distributed systems.
* Developing high quality and impactful publications.
* Developing collaborations with academic, industry partners and EPSRC projects.

The successful candidate will have a PhD in Computer Science or equivalent with experience in cyber security, distributed systems and assurance techniques.

The School of Computing and Communications at Lancaster University offers a highly inclusive and stimulating environment for career development, and you will be exposed to a range of further opportunities over the course of this post. We are committed to family-friendly and flexible working policies, as well as the Athena SWAN Charter, which recognises and celebrates good employment practice undertaken to address gender equality in higher education and research.

You will join us on an indefinite contract; however, the role remains contingent on external funding, which for these roles initially ends after 24 months (with the possibility to extend further)

The candidates will be working under the direct supervision of [Prof. Neeraj Suri](https://ssg.lancs.ac.uk/people/suri/) (neeraj.suri@lancaster.ac.uk) and [Dr. Matthew Bradbury](https://mbradbury.github.io/) (m.s.bradbury@lancaster.ac.uk). Enquiries are welcome!