Creating the communication infrastructure of the future.

An Internet for people and things.
The University of Bristol has made major strategic investment over the past decades to strengthen research in Information Technology, Communications and Networking research, and in 2015 established the Smart Internet Lab.

The Smart Internet Lab builds on strategic and applied research on key communications and digital technologies at the University of Bristol to create, and permanently support, a hub for Internet Research with long lasting benefits for the society and economy.

We are witnessing the emergence of a smart world, with ‘smart homes’, ‘smart security’, ‘smart energy’, ‘smart healthcare’, ‘smart transport’ and ‘smart cities’. To support trillions of Internet connected machines, we need to increase network capacity, enhance coverage reliability and flexibility, lower end-to-end latency and redesign future networks.

We provide a holistic approach to hardware and software co-design used to solve critical problems in the global Internet evolution. Our unique offering, our combined expertise across optical, wireless, IoT and cloud technologies, enables us to bring together end-to-end network design and optimisation.

We challenge the complexity of tomorrow’s world by fusing research expertise and innovation in a range of areas such as, IoT, 5G, Smart Cities, Mobile and Edge Computing, Digital Health, Data Centers and Autonomous Vehicles.

Our vision is to maintain and grow our world leadership in communications and digital living research, addressing a key limitation with the current Internet, its inability to scale enough to support the demand and rapid changes in the way we consume Internet services.