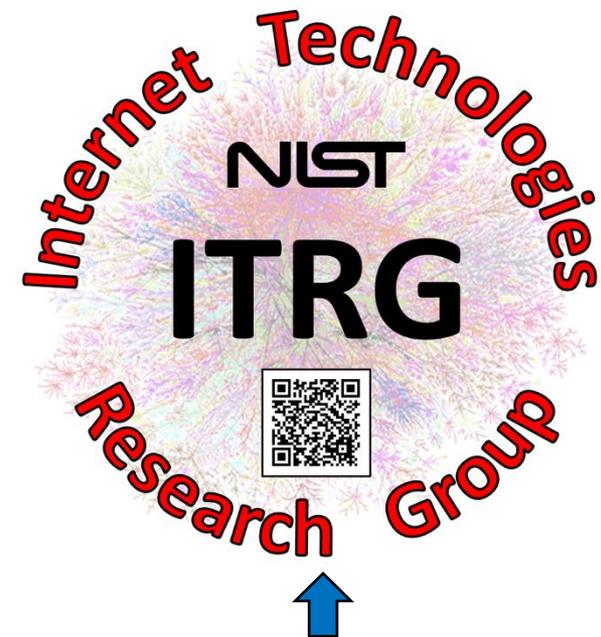


# Network Security Research @ NIST

## Would you like to start your career:

- Collaborating with industry to **design, standardize, commercialize and deploy technologies** to address **vulnerabilities** in current and emerging networks.
- Leveraging emerging disruptive technologies to develop **new approaches to improve the security and resilience** of critical network infrastructure.
- Researching **methods to design and validate** new network security technologies.



## Do you have a background or interest in ..... If so, start here

- next generation wireless technologies (5G/6G/ORAN), core Internet technologies (BGP, DNS), virtualized network / cloud native security, advanced security architectures (zero-trust), security testing and verification, applications of AI to security, protocol design and standardization, open-source software development, network measurement and data science.
- working with leading Internet companies in standards / collaborative forums such as..



# Research, Development, Technology Transfer

## ✓ Protocol Design, Analysis and Standardization

- Internet Engineering Task Force (IETF), Internet Research Task Force (IRTF), North American Network Operators Group (NANOG), Open Radio Access Network (O-RAN) Alliance.

## ✓ Internet Scale Measurement and Data Analysis

- Measurement, monitoring, and analysis of Internet infrastructure.

## ✓ Rapid Prototyping

- Open source reference implementations of emerging protocol specifications.

## ✓ Analytical, Simulation & Emulation Modeling

- Internet scale modeling for performance, scalability, security, and resilience.

## ✓ Test and Evaluation of Emerging Implementations

- Test tools designed to assist implementers and early adopters.
- Test methods to ensure product interoperability, conformance and performance.

## ✓ Operational Guidance and Standards Profiles

- Fostering safe, secure and efficient acquisition, deployment and operation of emerging network technologies.

