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# IOWA STATE UNIVERSITY

## Iowa State University

### Department of Electrical and Computer Engineering

Dependable Networking and Computing Lab



[ece.iastate.edu](http://ece.iastate.edu)



[@ISU\\_ECpE](https://twitter.com/ISU_ECpE)

**Iowa State University** is a public flagship classified as a Research University with very high research activity by the Carnegie Foundation for the Advancement of Teaching, receiving nearly US\$300 million in research grants each year.

The [Dependable Networking and Computing](#) research group from the **Department of Electrical and Computer Engineering (ECpE)** explores theories, methods, and systems building-blocks for addressing dynamics and uncertainties in networked systems. Interested in the modeling, algorithmic, and systems issues in wireless sensing and control networks in mixed reality, connected and automated vehicles, smart agriculture, smart energy grid, industrial IoT, and cyber-physical-human systems in general. Our work has been recognized by the Best Demo Award at the 23rd and 21st NSF GENI Engineering Conference in 2015 and 2014 respectively.

#### READY FOR:



OPEN IDEAS



x1 CHALLENGE

Researchers

Innovators

3 / 6  
months

A NGI initiative



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 825183.

Partners





## CHALLENGE #17 - ISU-MR-01

### → Trustworthy, Real-Time Wireless Networking for Control and Mixed-Reality (MR) Systems

#### GOALS

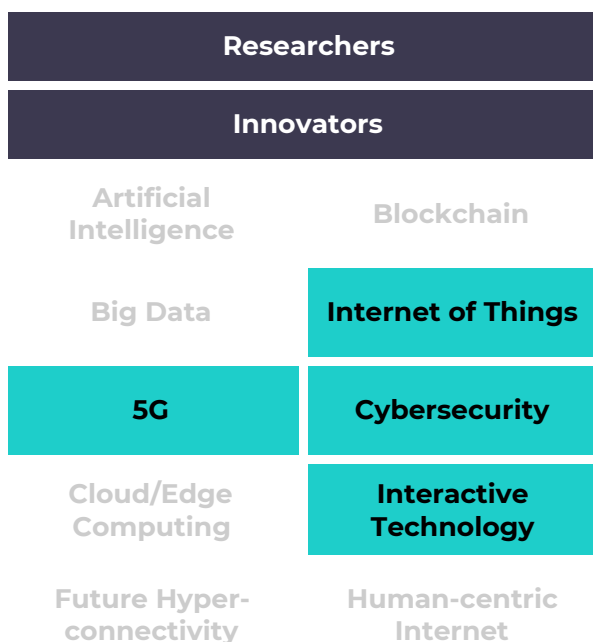
Develop trustworthy, predictable, ultra-reliable and low-latency wireless network systems for mission-critical, and often-times safety-critical, control and mixed-reality systems in domains such as agriculture, transportation, power grid, and public safety.

#### DETAILS

Address uncertainties (e.g., wireless channel uncertainties, interference, and attacks) in wireless systems, towards enabling predictable, real-time wireless communication for safety-critical applications.

#### SKILLS REQUIRED

Passion and background in the design, analysis, and prototyping of real-world advanced wireless systems.



**→ READ THE GUIDELINES**