Mobile telecommunications are essential in creating smart cities of the future, with next-gen technologies promising better end-to-end experiences, new applications, and improved network performance, therefore enhancing the national economy and well-being. But this reliance on mobile networks, including 5G, also poses security risks. CIRI’s research in this field will provide analyses, reports, and tools to combat these issues.

1. **NG911 Interoperability Testing Program**  
   Texas A&M University

2. **Characterizing End-to-End Risk of the Telecommunications Supply Chain**  
   Georgia Institute of Technology

3. **Empirical Security Analysis of the Wireless Emergency Alerts System**  
   University of Colorado Boulder

4. **Multi-Layer Cyber-Physical Supply Chain Risk Analysis for Improving the Resilience of IoT-Enabled Critical Infrastructures**  
   New York University

5. **LEFT: An LTE-Oriented Emulation-Instrumented Fuzzing Testbed**  
   Binghamton University

6. **Network GPS Spoofing Detection for Power Systems**  
   University of Illinois

7. **Mapping Infrastructure Interdependencies for Improved Emergency Management and Resilience Investment Decisions**  
   Georgia Institute of Technology

8. **EMP Risk Assessment and Mitigation Prioritization**  
   Synclerosis

9. **Protecting the Nation’s 911 System from Cyber Threats Present and Future**  
   Karthik Consulting