**Background:**

Although its commonplace to focus on the potential downsides of AI, with appropriate guardrails and investments in place the technology also presents many opportunities; it is important to imagine a future with widespread AI deployment and invest in research that investigates how AI can be leveraged to promote a more efficient technological future. This bill aims to help further broader AI innovation efforts by supporting research in targeted, high-value topic areas.

**Legislation:**

This bill directs NSF to support research into AI-enabled efficient technologies and give special consideration to research conducted at EPSCoR institutions. Research proposals should focus on improving efficiency across a number of issue areas, including:

* smart grids,
* mobility or transportation,
* agriculture,
* waste reduction,
* emissions reduction, and
* resource conservation.

Proposals that focus on building smart technologies to support critical infrastructure, minimizing pollution and greenhouse gas emissions from critical infrastructure sectors, and upgrading existing constructions to be more efficient should be prioritized. Research may also include proposals that assess the feasibility of safe and reliable integration of AI-enabled efficient technologies into critical infrastructure and research into the effectiveness of expanding public understanding, development, or adoption of AI-enabled efficient technologies.

The legislation also requires research to include an impact assessment that evaluates the cost of deploying the AI-enabled technology described in the research, as well as a report to Congress on research feasibility and results.

**Endorsing Organizations:** TBD

**Co-Sponsors:** TBD