

**Update to the 2016 Federal Cybersecurity Research and Development
Strategic Plan RFI Responses**

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From: Depti Patel
Subject: Research Inputs

Hello All,

MEMORANDUM

From: D. Patel

Date Jan 8 2019

To: NSF

Subject: NITRD strategic plan for 2016

The cyber foundation needs to expend more research in the areas of data/predictive analytics using the methodology developed by the semiconductor industry by ensuring defect of 1% is considered pass.

1. There needs to be research to address applying technical and non-technical means to deterring attacks/exploits of the electoral process.
 - a. Technical – improvements in identity, encryption and trust models for polling and tabulating
 - b. Non-technical
 - i. Legal – identification of gaps between SLTT and FED.
 - ii. Analysis of the enforcement of existing statutes (FED) and their effectiveness in reducing risk.

The other research arena would be to generate a project where STEAM can be applied to new technologies to stay current with industry.

1. Example the usage of drone technology and Artificial Intelligence while the Drone is being used in acquiring information like in farming how much soil needs to be improved to get a higher yield in crop next year. In particular imaging the surface sample the drone will be used in multiple scenarios.