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Research Domain, discipline, and sub-discipline
Engineering, Mechanical Engineering, Combustion and Renewable Energy

Title of Submission
Industry suggests that all San Diego Universities should produce more Big Data and Cybersecurity trained engineers

Abstract (maximum ~200 words).
San Diego State University Engineering faculty often gets feedback from San Diego Industry during advisory board meetings, and visits to industry sites. San Diego has strong aerospace, tech, biotech and other industries and a common need that is asked of us as university educators is to produce more Big Data Engineers and Cybersecurity Engineers. To address this education need, perhaps the NSF could incorporate support for curriculum and course development in these areas of need.

Question 1 Research Challenge(s) (maximum ~1200 words): Describe current or emerging science or engineering research challenge(s), providing context in terms of recent research activities and standing questions in the field.

Big Data Engineers and Cybersecurity Engineerings are highly sought by San Diego Industry.

Question 2 Cyberinfrastructure Needed to Address the Research Challenge(s) (maximum ~1200 words): Describe any limitations or absence of existing cyberinfrastructure, and/or specific technical advancements in cyberinfrastructure (e.g. advanced computing, data infrastructure, software infrastructure, applications, networking, cybersecurity), that must be addressed to accomplish the identified research challenge(s).

Big Data Engineers and Cybersecurity Engineerings are highly sought by San Diego Industry.
**Question 3** Other considerations (maximum ~1200 words, optional): Any other relevant aspects, such as organization, process, learning and workforce development, access, and sustainability, that need to be addressed; or any other issues that NSF should consider.

Big Data Engineers and Cybersecurity Engineerings are highly sought by San Diego Industry.

**Consent Statement**

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