**Topic Area 9 Q&A**

Q: Is this scope applicable to instruments that can be applied to advanced reactor systems, such as a chemical sensor for MSR/SFRs? Or is it more aimed toward current reactors?
A: It is applicable in advanced reactors. It is one of our goals. We support all three. The advanced reactors existing fleet and the fuel cycle systems.

Q: Would a proposal focused on cybersecurity be of interest to Topic Area 9 or Topic Area 10?
A: Topic Area 10 most likely.

Q: Is the development of a flexible self-powered nano film detector for neutrons and photons responsive to this FOA?
A: The detectors fall more under the NNSA area. We are looking for sensors and instruments that monitor and control advanced reactors.

Q: For digital twin related topics, does the physical system need to be an actual nuclear reactor?
A: We are looking for nuclear reactor applications.

Q: Would testing of multifunctional sensors for monitoring MSR/SFR/LFRs be better for Topic Area 1 or Topic Area 9?
A: If it is focused on the sensor technology and sensor focused, it could fall under Topic Area 9. If you submit, we will try to identify the best place for it.

Q: If we have a sensor being used in a different industry, could we adapt that to be applicable to this program? Does it count as a new sensor?
A: Yes, that is acceptable. We can provide more details on how to address the gap that is needed. We are not looking for new sensors only, we are also looking to further develop what is being used currently. It would be good for the applicant to look at what the program is currently working on.

Q: Are sensors and monitoring for fusion energy systems relevant to this topic area?
A: No, we are focused on fission. Fusion is Office of Science.

Q: For monitoring of nuclear additive manufacture, will it fit more to Topic 9 or 11?
A: If you are developing a monitor or sensor that could be aligned with Topic Area 9. If you are using the technology for an application, it could fit under Topic Area 11. Program managers can request that an application be moved to a different area, with the permission from the PI.