# OAK RIDGE NATIONAL LABORATORY

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# Self-Correcting True Random Number Generator

## Disclosure Number

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## Technology Summary

The invention relates to random number generators and more specifically to a self-correcting true random number generator (STRNG). The self-correcting true random number generator provides a trustworthy component for validating that generated numbers are indeed random and that the component is operating within design specifications. This self-correcting feature enables the STRNG to recover from both inadvertent as well as intentional applied biases or component imperfections that would otherwise skew the generated output. The randomness of the generated numbers is therefore assured with a higher level of confidence that carries over to downstream applications.

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