

Technology-readiness levels (TRL) clarification

Technology readiness levels (TRL) are a type of measurement system used to assess the maturity level of a particular technology. There are nine technology readiness levels - TRL 1 is the lowest and TRL 9 is the highest.

This funding opportunity is specifically to develop high TRL of 7-9. For this funding opportunity, development of TRL lower than 7 will not be considered.

See the table for the TRL criteria:

TRL	Validation Criteria	Environment
4	Sub-system validation in a laboratory environment Validation of components prior to integration	Benchtop
5	Technology validation in a relevant environment Validation of complete system, does not have to be final form factor	Water (Lab)
6	Technology demonstration in a representative environment Validation of complete system in final form factor	Sea Water (Lab)
7	System prototype demonstration in an operational environment Validation of complete system (technology + supporting platforms) in final form factor in an operational setting without validated data gathering (co-sampling not required)	Sea
8	Actual system completed and "mission qualified" through test and demonstration in an operational environment Validation of complete system in final form factor in an operational environment including validated data gathering (co-sampling required)	Sea
9	Actual system mission proven Validation of complete system in final form factor as part of actual science mission	Sea