



nature



health



society



ancient



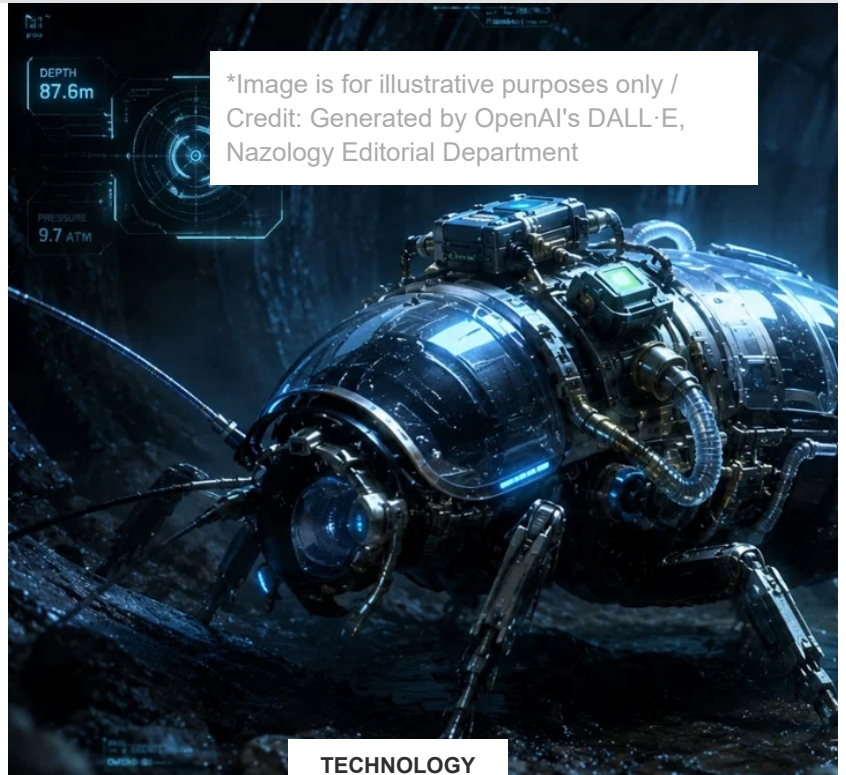
universe



technology



TOPtechnology



technology cyborg insect

A "diving suit" has been developed that enables cyborg insects to move underwater.

WEDNESDAY, JULY 1, 2026, 17:00:33

Disaster sites often create spaces that are too narrow for humans to enter and are also submerged in water.

Gaps in rubble, drainage pipes, underground tunnels, and flooded passageways are all places that require rescue and inspection, but are difficult for conventional robots to access.

This is where "cyborg insects," which utilize the motility of living insects, come into play .

However, cyborg insects up until now have had a major weakness.

The problem is that, being land insects, they cannot breathe underwater.

A research team from Nanyang Technological University Singapore (NTUS) and Waseda University has developed **a flexible "diving suit" that allows terrestrial insects to operate underwater .**

Details of the research were published in the academic journal *Nature Communications* on June 29, 2026.

World's first terrestrial insect capable of underwater exploration: A cyborg insect capable of diving for 3 hours with an oxygen-supplying suit has been created – Expected to be useful in flooded disaster areas and inside infrastructure.

<https://www.waseda.jp/inst/research/news/84905>

Underwater Suit-Wearing Cyborg Insect Capable of Hours-Long Diving and Terra-Aqua Travel

<https://doi.org/10.1038/s41467-026-74235-1>



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I'm a web writer with an interest in biology. My hobbies include reading, and on my days off, I take photos of wild birds and animals.



Nazology **Editorial Department**