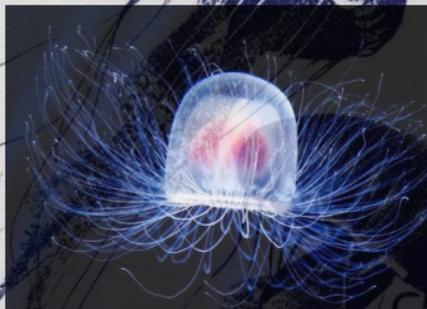


the immortal jellyfish

by the
Roly-Polies



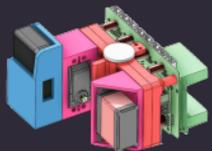
SFU FAS comp
2026

learn more about
how we built it

engineering - jellyfish - technology - design - science - art

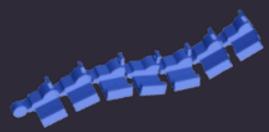
2 SERVO MOTORS

for inward and outward movement
and a battery for power



3D PRINTED TENTACLES

designed in SolidWorks



PRINTED CIRCUIT BOARD

to control the lights and
tentacle movement



VIBE-CODED WEBAPP

with a networking layer and Gemini
wrapper to control the colours



THE UMBRELLA



featuring...

THE ROLY-POLIES



What is applied science?

1. SCIENTIFIC KNOWLEDGE

Using the Scientific Method and knowledge, theories, and laws from Physics, Biology, and Chemistry, rather than just exploring science for its own sake.

Mauve Stinger (*Pelagia noctiluca*)
"nightlight of the sea"



2. DESIGN A SOLUTION

Finding creative and specific solutions for real-world problems. Eg. making vaccines, electric cars, bridges, high-speed trains.

Shanghai Maglev – 2004
the fastest train in the world at 431 km/h



3. BUILDING AND USING TECHNOLOGY

Key areas include engineering (civil, mechanical, chemical), computer science, forensic science, and biotechnology.



Laserphaco Probe – Dr. Patricia Bath, 1986
laser device that dissolves cataracts painlessly before lens replacement

The lion's mane
jellyfish can have
tentacles longer
than a blue whale

Jellyfish have
been around for
at least 500
million years



The biological process
that allows immortal
jellyfish to reverse aging is
called cellular
transdifferentiation



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