



Technician Project Path

The Technician's job is to design a robotic tool with a sensor and a motor to help the rainforest. Explore the **Project Path** to see how biologists use tools to monitor animals in the rainforest. Use what you learn to design your robotic tool!

Vocabulary Words:

Balance

**Motion-activated
camera**

Biology

Endangered

**Sound
recorders**

Technician Role / Game Connection:



About Monitoring Equipment



Animal Monitoring Tools

Animals need their environment to stay healthy, and even small changes can upset the **balance** of the rainforest. Wildlife **biologists** study animals and their habitats to spot problems early and help keep the forest healthy. They use powerful technology and tools like **motion-activated cameras** that take pictures or videos when animals pass by, and **sound recorders** to capture bird calls or bat signals.

These tools let scientists learn about **endangered** animals and how they live without disturbing them. The photos, sounds, and data that wildlife biologists collect are then used to learn how animals live and survive.

By studying how animals find food, raise their young, and move through the forest, scientists can identify which species are most at risk from threats like hunting, deforestation, or climate change. Biologists, and the teams of people they collaborate with, figure out how to protect animals, plants, and the rainforest for the future.



Use the guiding questions to continue researching the Project Path. You can use additional resources like trusted educational websites, books, and news articles written for students, videos of expert interviews, and tools provided by your teacher or coach.



How could you monitor an ecosystem to improve the lives of plants and animals?

Topic	Guiding Questions
People & Careers	• How do wildlife biologists help protect the balance of the rainforest ecosystem? • Why is the work of wildlife biologists important for saving endangered animals?
Technology	• What simple tools do wildlife biologists use to study animals? • How does a camera trap help biologists learn about animal behavior without disturbing wildlife?
Impact	• What kinds of information do wildlife biologists learn from the data they collect about animals? • Why is it important for scientists to understand how threats like hunting or deforestation affect animals?