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There is a lot of science going on onboard
the International Space Station right now,

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and a lot of has to do with just how long
humans survive in space with the eye towards

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an eventual mission to Mars.

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So the ISS is a scientific platform that allows
for many different kinds of research; it's

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multidisciplinary.

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So we do research in the biological sciences,
the physical sciences, Earth and space science,

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but because of the presence of human beings
– astronauts, crew members – we are able

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to use them as subjects to do human research
and really to learn how the human body adapts

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to a microgravity environment over a long
period of time.

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What we do in the Program Science Office is
science management; we manage all the research

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that's on board the space station, and specifically
our... one of our main jobs is communicating

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the research not just from a US perspective
but across the international partnership.

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So the one year mission is really, it is really
about sending humans beyond low Earth orbit,

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00:01:09,020 --> 00:01:11,890

hopefully to the destination of Mars.

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Understanding the effects of long-duration
spaceflight on humans is a huge part of NASA's

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journey to Mars.