The **International Space Station** (**ISS**) is a [space station](https://en.wikipedia.org/wiki/Space_station) (habitable [artificial satellite](https://en.wikipedia.org/wiki/Satellite)) in [low Earth orbit](https://en.wikipedia.org/wiki/Low_Earth_orbit). The [ISS programme](https://en.wikipedia.org/wiki/International_Space_Station_program) is a joint project between five participating space agencies: [NASA](https://en.wikipedia.org/wiki/NASA) (United States), [Roscosmos](https://en.wikipedia.org/wiki/Roscosmos_State_Corporation%22%20%5Co%20%22Roscosmos%20State%20Corporation) (Russia), [JAXA](https://en.wikipedia.org/wiki/JAXA) (Japan), [ESA](https://en.wikipedia.org/wiki/European_Space_Agency) (Europe), and [CSA](https://en.wikipedia.org/wiki/Canadian_Space_Agency) (Canada).[[6]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-ISSRG-6)[[7]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-PartStates-7) The ownership and use of the space station is established by intergovernmental treaties and agreements.[[8]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-ESA-IGA-8)

The ISS serves as a [microgravity](https://en.wikipedia.org/wiki/Microgravity) and [space environment](https://en.wikipedia.org/wiki/Space_environment) research laboratory in which crew members conduct experiments in biology, human biology, physics, astronomy, meteorology, and [other fields](https://en.wikipedia.org/wiki/Scientific_research_on_the_International_Space_Station).[[9]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-ISS_overview-9)[[10]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-NASA_Fields_of_Research-10)[[11]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-NASA_ISS_Goals-11) The station is suited for the testing of spacecraft systems and equipment required for missions to the Moon and Mars.[[12]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-ResProg-12) The ISS [maintains an orbit](https://en.wikipedia.org/wiki/Orbital_station-keeping) with an average altitude of 400 kilometres (250 mi) by means of reboost manoeuvres using the engines of the *[Zvezda](https://en.wikipedia.org/wiki/Zvezda_%28ISS_module%29%22%20%5Co%20%22Zvezda%20%28ISS%20module%29)* module or visiting spacecraft.[[13]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-13) It circles the Earth in roughly 92 minutes and completes 15.5 orbits per day.[[14]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-tracking-14)

The station is divided into two sections, the [Russian Orbital Segment](https://en.wikipedia.org/wiki/Russian_Orbital_Segment) (ROS), which is operated by Russia, and the [United States Orbital Segment](https://en.wikipedia.org/wiki/US_Orbital_Segment) (USOS), which is shared by many nations. Roscosmos has endorsed the continued operation of ISS through 2024,[[15]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-sn20150225-15) but had previously proposed using elements of the Russian segment to construct a new Russian space station called [OPSEK](https://en.wikipedia.org/wiki/Orbital_Piloted_Assembly_and_Experiment_Complex).[[16]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-moscow20141117-16)As of December 2018, the station is expected to operate until 2030.[[17]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-auto-17)

The first ISS component was launched in 1998, with the [first long-term residents](https://en.wikipedia.org/wiki/Expedition_1) arriving on 2 November 2000.[[18]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-18) Since then, the station has been continuously occupied for 18 years and 338 days.[[19]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-19) This is the longest continuous human presence in [low Earth orbit](https://en.wikipedia.org/wiki/Low_Earth_orbit), having surpassed the previous record of 9 years and 357 days held by [*Mir*](https://en.wikipedia.org/wiki/Mir). The latest major pressurised module was fitted in 2011, with an experimental [inflatable space habitat](https://en.wikipedia.org/wiki/Inflatable_space_habitat) added in 2016. Development and assembly of the station continues, with several major new Russian elements scheduled for launch starting in 2020. The ISS is the largest human-made body in low Earth orbit and can often be seen with the [naked eye](https://en.wikipedia.org/wiki/Naked_eye) from Earth.[[20]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-20)[[21]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-21) The ISS consists of pressurised habitation modules, structural trusses, [solar arrays](https://en.wikipedia.org/wiki/Solar_arrays), radiators, docking ports, experiment bays and robotic arms. Major ISS modules have been launched by Russian [Proton](https://en.wikipedia.org/wiki/Proton_%28rocket_family%29) and [Soyuz](https://en.wikipedia.org/wiki/Soyuz_%28rocket_family%29) rockets and US [Space Shuttles](https://en.wikipedia.org/wiki/Space_Shuttle).[[22]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-ISSBook-22)

The ISS is the ninth space station to be inhabited by crews, following the Soviet and later Russian [*Salyut*](https://en.wikipedia.org/wiki/Salyut_programme), *[Almaz](https://en.wikipedia.org/wiki/Almaz%22%20%5Co%20%22Almaz)*, and *Mir* stations as well as [*Skylab*](https://en.wikipedia.org/wiki/Skylab) from the US. The station is serviced by a variety of visiting spacecraft: the Russian [Soyuz](https://en.wikipedia.org/wiki/Soyuz_%28spacecraft%29) and [Progress](https://en.wikipedia.org/wiki/Progress_%28spacecraft%29), the US [Dragon](https://en.wikipedia.org/wiki/SpaceX_Dragon) and [Cygnus](https://en.wikipedia.org/wiki/Cygnus_%28spacecraft%29), the Japanese [H-II Transfer Vehicle](https://en.wikipedia.org/wiki/H-II_Transfer_Vehicle),[[6]](https://en.wikipedia.org/wiki/International_Space_Station#cite_note-ISSRG-6) and the European [Automated Transfer Vehicle](https://en.wikipedia.org/wiki/Automated_Transfer_Vehicle). The Dragon spacecraft allows the return of pressurised cargo to Earth ([downmass](https://en.wikipedia.org/wiki/Downmass%22%20%5Co%20%22Downmass)), which is used for example to repatriate scientific experiments for further analysis. The Soyuz return capsule has minimal downmass capability next to the astronauts.

The ISS has been visited by astronauts, cosmonauts and [space tourists](https://en.wikipedia.org/wiki/Space_tourist) from [18 different nations](https://en.wikipedia.org/wiki/List_of_International_Space_Station_visitors). As of 14 March 2019, 236 people from 18 countries had visited the space station, many of them multiple times. The United States sent 149 people, Russia sent 47, nine were Japanese, eight were Canadian, five were Italian, four were French, three were German, and there were one each from Belgium, Brazil, Denmark, Kazakhstan, Malaysia, the Netherlands, South Africa, United Arab Emirates, South Korea, Spain, Sweden, and the United Kingdom