

Biographical Data

**Chris Hadfield (Colonel, CAF, Ret.)
Canadian Space Agency Astronaut –Active**

PERSONAL DATA:

Born August 29, 1959, in Sarnia, and raised in Milton, Ontario.

Colonel Chris Hadfield is married and has three children.

He enjoys skiing, playing guitar, singing, riding, writing, running, and playing volleyball and squash.



EDUCATION:

Graduated as an Ontario Scholar from Milton District High School in 1977; Received a bachelor degree in mechanical engineering (with honours), Royal Military College, Kingston, Ontario, Canada, in 1982; Conducted post-graduate research at the University of Waterloo, Ontario in 1982; Received a Master of Science in aviation systems at the University of Tennessee in 1992.

EXPERIENCE:

Raised on a corn farm in southern Ontario, Chris Hadfield became interested in flying from a young age. As an Air Cadet, he won a glider pilot scholarship at age 15 and a powered pilot scholarship at age 16. He also taught skiing and ski racing part- and full-time for 10 years.

Hadfield joined the Canadian Armed Forces in May 1978. He spent two years at Royal Roads Military College, in Victoria, British Columbia, followed by two years at the Royal Military College in Kingston, Ontario, where he received a bachelor's degree in Mechanical Engineering (with honours) in 1982. Hadfield underwent basic flight training in Portage La Prairie, Manitoba, for which he was named top pilot in 1980. In 1983, he took honours as the overall top graduate from Basic Jet Training in Moose Jaw, Saskatchewan, and in 1984-1985, he trained as a fighter pilot in Cold Lake, Alberta on CF-5s and CF-18s.

For the next three years Hadfield flew CF-18s for the North American Aerospace Defense Command (NORAD) with 425 Squadron, during which time he flew the first CF-18 intercept of a Soviet "Bear" aircraft. He attended the United States Air Force (USAF) Test Pilot School at Edwards Air Force Base, in California, and upon graduation, served as an exchange officer with the U. S. Navy at Strike Test Directorate at the Patuxent River Naval Air Station. His accomplishments from 1989 to 1992 included testing the F/A-18 and A-7 aircraft; performing research work with NASA on pitch control margin simulation and flight; completing the first military flight of F/A-18 enhanced performance engines; piloting the first flight test of the National Aerospace Plane external burning hydrogen propulsion engine; developing a new handling qualities rating scale for high angle-of-attack test; and participating in the F/A-18 out-of-control recovery test program. In total, Hadfield has flown over 70 different types of aircraft.

SPACE EXPERIENCE:

In June 1992 Chris Hadfield was selected to become one of four new Canadian astronauts from a field of 5330 applicants. The Canadian Space Agency (CSA) assigned him to the NASA Johnson Space Center in Houston, Texas in August of the same year, where he addressed technical and safety issues for Shuttle Operations Development, contributed to the development of the glass shuttle cockpit, and supported shuttle launches at the Kennedy Space Center, in Florida. In addition, Hadfield was NASA's Chief CapCom, the voice of mission control to astronauts in orbit, for 25 space shuttle missions. From 1996 to 2000, he represented CSA astronauts and coordinated their activities as the Chief Astronaut for the CSA.

From 2001-2003, Hadfield was the Director of Operations for NASA at the Yuri Gagarin Cosmonaut Training Centre (GCTC) in Star City, Russia. His work included coordination and direction of all International Space Station crew activities in Russia, oversight of training and crew support staff, as well as policy negotiation with the Russian Space Program and other International Partners. He also trained and became fully qualified to be a flight engineer cosmonaut in the Soyuz TMA spacecraft, and to perform spacewalks in the Russian Orlan spacesuit.

Hadfield is a civilian CSA astronaut, having retired as a Colonel from the Canadian Air Force in 2003 after 25 years of military service. He was Chief of Robotics for the NASA Astronaut Office at the Johnson Space Center in Houston, Texas from 2003-2006, and is now Chief of International Space Station Operations.

SPACE FLIGHTS:

STS-74

In November 1995 Hadfield served as Mission Specialist 1 on STS-74, NASA's second space shuttle mission to rendezvous and dock with the Russian Space Station Mir. During the flight, the crew of Space Shuttle Atlantis attached a five-tonne docking module to Mir and transferred over 1,000 kg of food, water, and scientific supplies to the cosmonauts. Hadfield flew as the first Canadian mission specialist, the first Canadian to operate the Canadarm in orbit, and the only Canadian to ever board Mir.

STS-100

In April 2001 Hadfield served as Mission Specialist 1 on STS-100 International Space Station (ISS) assembly Flight 6A. The crew of Space Shuttle Endeavour delivered and installed Canadarm2, the new Canadian-built robotic arm, as well as the Italian-made re-supply module Raffaello. During the 11-day flight, Hadfield performed two spacewalks, which made him the first Canadian to ever leave a spacecraft and float freely in space.

In total, Hadfield spent 14 hours, 54 minutes outside, traveling 10 times around the world.

ISS Expedition 20/21

From 2008-09, Chris Hadfield served as the backup for Canadian Astronaut Dr. Bob Thirsk for Expedition 20/21, a long-duration spaceflight.

He trained to ride the Soyuz as well as to live and work on board the ISS for a period of up to six months.

CURRENT STATUS:

In September 2010 Hadfield was assigned to Expedition 34/35. In 2012 he will launch as Flight Engineer 1 aboard a Russian Soyuz to take part in a long-duration spaceflight aboard the ISS.

In the March 2013, during the second portion of his six month stay in space, Chris Hadfield will become the first Canadian to command a spaceship, as Commander of the International Space Station (ISS)

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