|  |  |
| --- | --- |
| APA Citation | Research |
| <http://careers.stateuniversity.com/pages/7831/Astronaut.html>  \*\* | * Training/Educational Requirements   + Minimum educational requirement = bachelor’s degree   + Preferred if education is in a space-related focus, such as math, engineering and other sciences   + Intense training program     - Must be in excellent physical shape     - Must follow a very stringent training program |
| <http://www.asc-csa.gc.ca/eng/astronauts/how-to-become-an-astronaut/requirements-and-conditions.asp> | * Basic Requirements   + Must reside in Canada or be a Canadian citizen residing abroad (preference to Canadian citizens)   + Fluent in French or English (proficiency in both is an asset)   + Bachelor’s degree from a recognized university (engineering or sciences) AND/OR doctorate in medicine or dentistry   + At least three years of relevant professional experience or be licenced to practise medicine in Canada * Physical and Medical Requirements   + Height: Between 149.5 cm and 190.5 cm   + Weight: Between 50 kg and 95 kg   + Visual Acuity: 20/20 or better in each eye, with or without correction   + Applicants cannot be colour blind   + Blood pressure: Not higher than 140/90 mm Hg, measured in a sitting position   + Auditory acuity: normal hearing * Conditions of employment   + Secret security clearance   + Relocation to Houston, Texas   + Vaccination against communicable diseases, as required |
| <http://www.asc-csa.gc.ca/eng/astronauts/about-the-job/default.asp> | * Mission specific training   + Astronauts going to the ISS take a two year training program on Earth   + Most missions take place in simulators and virtual reality   + Learn to perform tasks in low- or no- gravity environments   + Practice in NASA’s Neutral Buoyancy Laboratory at the Jonson Space Center in Houston   + This lab is used to simulate weightlessness or free fall   + For every hour in a spacewalk, astronauts train for 10 hours on Earth   + You must know the Soyuz capsule completely in case of any emergencies or complications during launch and since the Soyuz capsule is the only capsule capable of taking humans from Earth’s surface to the ISS, especially since the cancelling of the Space Shuttle in 2011   + Astronauts must undergo extreme training to learn all the technical aspects of the spacecraft and Russian   + Must learn basic spacecraft functions such as launch, docking and landing   + Must operate the Canadarm 2   + Catch and dock unmanned capsules containing supplies   + Manipulate Canadarm 2 to move astronauts for spacewalks   + Using ISS modules   + Must be able to carry out emergency procedures and handle the dangers that come with spaceflight such as depressurization, fires and air contamination with gases such as ammonia * Space Mission Simulations   + CAVES Underground Expedition   + Cooperative Adventure for Valuing and Exercising Human Behaviour and Performance Skills   + Simulation for a space mission 4 km under the ground   + Tackles challenges that come with colonizing another planet with hostile conditions   + Prepares astronauts from around the world to work efficiently   + Have team-building situations   + Be aware of their surroundings while carrying out technical tasks   + NEEMO Underwater Expedition   + NASA Extreme Environment Mission Operations   + Another space mission simulation in an extreme environment   + Located in the Aquarius laboratory, which is 19 m underground   + Approximately 10 days long   + Trains astronauts to live and work together in a hostile environment that is trying to kill them while working on scientific studies   + Similar environment to the ISS   + Simulates spacewalks   + Test rock sample collection techniques like that on the Curiosity rover   + Survive in forced isolation |
|  |  |
|  |  |
|  |  |
|  |  |