

# Big Astronomy Needs Engineers to maintain equipment, steer spacecraft, and program telescopes



Fabiola Cruzat is a Supervisor for a large group of engineers and mechanics. She is responsible for maintenance of the telescopes and instruments.



Professor Moriba Jah has worked as a Spacecraft Navigator at NASA JPL, for five Mars missions, including the Mars Reconnaissance Orbiter.

Javier Rojas has been the Senior Electronic Engineer at the Cerro Tololo Inter-American Observatory since 1996. He oversees maintenance for everything on the mountain.



Eduardo Toro is an IT and Software engineer in charge of networking at Gemini. People from all over the world access the telescope virtually and he maintains the network.



Alysha Shugart's work as a Science Operations Specialist includes telescope operation, helping astronomers, data analysis, maintaining infrastructure, and engineering.



Mariah Burchard is an Electronics Engineer. She works on the analog and digital circuitry, such as the accelerometer on the mirror covers.



# Big Astronomy Needs Storytellers

to spread the word  
about the latest discoveries



Valeria Foncea is the Public Outreach Officer for ALMA, sharing the excitement of the latest astronomy using her extensive journalism and TV experience.



David Barrera is an Indigenous Atacameñan Businessman. He collaborates with the astronomy community to protect the land and people.

Sylvana Zuñiga is an Artist. She paints murals of the Universe, inspiring others to imagine the universe through art.



Ida Huntz is an Amateur Astronomer. She shares her love of the night sky with the community through a telescope.



Juan Carmelo is a Cultural Cultivator. He communicates the knowledge and traditions of the Atacameñan people, their ancestors, and Indigenous science.



Daniella Scalice is the Education and Communications Lead for the NASA Astrobiology Program. She shares the search for life in the Universe.



## Big Astronomy Needs Operations Staff

to keep the observatory running smoothly



Daniela Soto is a telescope operator at ALMA and has a background in physics and engineering. She worked in a planetarium in Santiago.



Alfredo Elgueta is one of only four people trusted to operate the transporter that moves the antennas at the ALMA Observatory.

Alex Barria is the Safety Deputy and a paramedic. The observatory is on a high desert, so he often distributes oxygen tanks to help workers and visitors who get altitude sickness.



Alex Jeraldo was a chef when he first arrived at Cerro Tololo Inter-American Observatory. Now he manages all the staff in the cafeteria and residences.



Modern astronomy takes large teams with diverse skills to unlock the secrets of the Universe.

No longer a lone astronomer behind a telescope, the largest observatories in the world are supported by thousands of people dedicated to bringing Big Astronomy to light.

**If you are interested in astronomy, there is space for you.**



# Big Astronomy Needs Astronomers to ask questions and translate data into big ideas



Celia Verdugo is a Data Analyst at the ALMS observatory. She studies star formation and loves seeing the big picture.



Burçin Mutlu-Pakdil, PhD uses the world's biggest telescopes to study the nature of dark matter and galaxy formation. She has discovered new types of galaxies.

Xinnan Du researches distant star-forming galaxies. She also serves as a mentor, running an internship program for students.



Brother Guy Consolmagno is an expert in meteorites and asteroids at the Vatican Observatory. He is also fascinated with science fiction.



Priyamvada Natarajan is a professor at Yale University. She is noted for her work in mapping dark matter and dark energy.



Thebe Medupe uses seismic waves to look inside stars. He also enjoys film-making and learning traditional African astronomy.

