

# Data Scientist - Guidance, Navigation & Controls (Starlink)

at SpaceX

Redmond, WA

SpaceX was founded under the belief that a future where humanity is out exploring the stars is fundamentally more exciting than one where we are not. Today SpaceX is actively developing the technologies to make this possible, with the ultimate goal of enabling human life on Mars.

## DATA SCIENTIST - GUIDANCE, NAVIGATION & CONTROLS (STARLINK)

At SpaceX, we are leveraging our experience in building rockets and spacecraft to deploy Starlink, the world's most advanced broadband internet system. Starlink is the world's largest satellite constellation and is providing fast, reliable internet to 3M+ users worldwide. We design, build, test, and operate all parts of the system – thousands of satellites, consumer receivers that allow users to connect within minutes of unboxing, and the software that brings it all together. We've only begun to scratch the surface of Starlink's potential global impact and are looking for best-in-class data scientists and engineers to help maximize Starlink's utility for communities and businesses around the globe.

As a Data Scientist on the Starlink GNC Team, you will be responsible for developing the strategy, key metrics, tools, models, and processes for monitoring the health and safety of the 6,000+ satellites in orbit. This individual will extract valuable insights from flight data and work closely with technical and business teams to optimize the safety and efficiency of the Starlink constellation. As a data scientist servicing needs for the Starlink constellation, you will bring in the latest and greatest machine learning and statistical technologies to turn insights from telemetry into actionable insights and autonomous applications.

### RESPONSIBILITIES:

- Combine statistical analysis, software, and telemetry to uncover new or breaking trends in the Starlink constellation
- Transform insights into action items for engineering teams, combining knowledge of the Starlink system with statistically-driven evidence
- Develop and implement monitoring systems and strategies to quickly detect trends and regressions as they arise
- Develop and validate models as predictors of constellation health and risk
- Guide the future rollout of thousands of next-generation Starlink satellites based on insights from the current constellation's performance

### BASIC QUALIFICATIONS:

- Bachelor's degree in computer science, physics, mathematics, statistics, or a STEM discipline and 1+ years of professional experience in data science (internship experience is applicable)
- Professional experience building solutions with Python and SQL
- Professional experience with statistical modeling and machine learning algorithms

### PREFERRED SKILLS AND EXPERIENCE:

- Professional experience in analytics, data science, or machine learning
- Experience building predictive models and machine learning pipelines (clustering analysis, anomaly detection, survival analysis, time series models)
- Excellent data visualization skills
- Excellent verbal and written communication skills
- Experience with developing and deploying tools used for data analysis, machine learning, and statistical modeling
- Demonstrated capability to parse technical subjects on a deep level
- Demonstrated ability to jump into ill-defined problem spaces and drive positive outcomes

- Self-starter attitude, energy, and the ability to communicate effectively across business and technical disciplines
- Experience designing and utilizing relational database (SQL)
- Background in statistics or computational physics

#### ADDITIONAL REQUIREMENTS:

- Must be willing to work extended hours and weekends as needed

#### COMPENSATION AND BENEFITS:

Pay range:

Data Scientist/Level I: \$120,000.00 - \$145,000.00/per year

Data Scientist/Level II: \$140,000.00 - \$170,000.00/per year

Your actual level and base salary will be determined on a case-by-case basis and may vary based on the following considerations: job-related knowledge and skills, education, and experience.

Base salary is just one part of your total rewards package at SpaceX. You may also be eligible for long-term incentives, in the form of company stock, stock options, or long-term cash awards, as well as potential discretionary bonuses and the ability to purchase additional stock at a discount through an Employee Stock Purchase Plan. You will also receive access to comprehensive medical, vision, and dental coverage, access to a 401(k)-retirement plan, short & long-term disability insurance, life insurance, paid parental leave, and various other discounts and perks. You may also accrue 3 weeks of paid vacation & will be eligible for 10 or more paid holidays per year. Exempt employees are eligible for 5 days of sick leave per year.

#### ITAR REQUIREMENTS:

- To conform to U.S. Government export regulations, applicant must be a (i) U.S. citizen or national, (ii) U.S. lawful, permanent resident (aka green card holder), (iii) Refugee under 8 U.S.C. § 1157, or (iv) Asylee under 8 U.S.C. § 1158, or be eligible to obtain the required authorizations from the U.S. Department of State. Learn more about the ITAR [here](#).

SpaceX is an Equal Opportunity Employer; employment with SpaceX is governed on the basis of merit, competence and qualifications and will not be influenced in any manner by race, color, religion, gender, national origin/ethnicity, veteran status, disability status, age, sexual orientation, gender identity, marital status, mental or physical disability or any other legally protected status.

Applicants wishing to view a copy of SpaceX's Affirmative Action Plan for veterans and individuals with disabilities, or applicants requiring reasonable accommodation to the application/interview process should notify the Human Resources Department at (310) 363-6000.

### Apply for this Job

\* Required

First Name \*

Last Name \*

Email \*

Phone \*

Location (City) \*

[Locate me](#)

Resume/CV \*

[Attach, or enter manually](#)

(File types: pdf, doc, docx, txt, rtf)

School \*

Degree \*

Discipline \*

[+ Add another education](#)

LinkedIn Profile

Portfolio or Cover Letter

[Attach File](#)

(File types: pdf, doc, docx, txt, rtf)

How did you hear about this job? \*

If event or other, please specify below.

Please specify

Active Security Clearance(s) \*

SpaceX Employment History \*

Are you legally authorized to work in the United States? \*

Citizenship Status \*

To conform to U.S. Government space technology export regulations, including the International Traffic in Arms Regulations (ITAR) you must be a U.S. citizen, lawful permanent resident of the U.S.,

protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State. Learn more about ITAR [here](#).

Please select ▼

If (f) Other, please explain:

Can you perform all of the essential functions of this role with or without reasonable accommodations? \*

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Voluntary Self-Identification

For government reporting purposes, we ask candidates to respond to the below self-identification survey. Completion of the form is entirely voluntary. Whatever your decision, it will not be considered in the hiring process or thereafter. Any information that you do provide will be recorded and maintained in a confidential file.

As set forth in SpaceX's Equal Employment Opportunity policy, we do not discriminate on the basis of any protected group status under any applicable law.

Gender Please select ▼

Are you Hispanic/Latino? Please select ▼

Race & Ethnicity Definitions

If you believe you belong to any of the categories of protected veterans listed below, please indicate by making the appropriate selection. As a government contractor subject to the Vietnam Era Veterans Readjustment Assistance Act (VEVRAA), we request this information in order to measure the effectiveness of the outreach and positive recruitment efforts we undertake pursuant to VEVRAA. Classification of protected categories is as follows:

- A "disabled veteran" is one of the following: a veteran of the U.S. military, ground, naval or air service who is entitled to compensation (or who but for the receipt of military retired pay would be entitled to compensation) under laws administered by the Secretary of Veterans Affairs; or a person who was discharged or released from active duty because of a service-connected disability.
- A "recently separated veteran" means any veteran during the three-year period beginning on the date of such veteran's discharge or release from active duty in the U.S. military, ground, naval, or air service.
- An "active duty wartime or campaign badge veteran" means a veteran who served on active duty in the U.S. military, ground, naval or air service during a war, or in a campaign or expedition for which a campaign badge has been authorized under the laws administered by the Department of Defense.
- An "Armed forces service medal veteran" means a veteran who, while serving on active duty in the U.S. military, ground, naval or air service, participated in a United States military operation for which an Armed Forces service medal was awarded pursuant to Executive Order 12985.



Please select



## Voluntary Self-Identification of Disability

Form CC-305  
Page 1 of 1

OMB Control Number 1250-0005  
Expires 04/30/2026

### Why are you being asked to complete this form?

We are a federal contractor or subcontractor. The law requires us to provide equal employment opportunity to qualified people with disabilities. We have a goal of having at least 7% of our workers as people with disabilities. The law says we must measure our progress towards this goal. To do this, we must ask applicants and employees if they have a disability or have ever had one. People can become disabled, so we need to ask this question at least every five years.

Completing this form is voluntary, and we hope that you will choose to do so. Your answer is confidential. No one who makes hiring decisions will see it. Your decision to complete the form and your answer will not harm you in any way. If you want to learn more about the law or this form, visit the U.S. Department of Labor's Office of Federal Contract Compliance Programs (OFCCP) website at [www.dol.gov/ofccp](http://www.dol.gov/ofccp).

### How do you know if you have a disability?

A disability is a condition that substantially limits one or more of your "major life activities." If you have or have ever had such a condition, you are a person with a disability. **Disabilities include, but are not limited to:**

- Alcohol or other substance use disorder (not currently using drugs illegally)
- Autoimmune disorder, for example, lupus, fibromyalgia, rheumatoid arthritis, HIV/AIDS
- Blind or low vision
- Cancer (past or present)
- Cardiovascular or heart disease
- Celiac disease
- Cerebral palsy
- Deaf or serious difficulty hearing
- Diabetes
- Disfigurement, for example, disfigurement caused by burns, wounds, accidents, or congenital disorders
- Epilepsy or other seizure disorder
- Gastrointestinal disorders, for example, Crohn's Disease, irritable bowel syndrome
- Intellectual or developmental disability
- Mental health conditions, for example, depression, bipolar disorder, anxiety disorder, schizophrenia, PTSD
- Missing limbs or partially missing limbs
- Mobility impairment, benefiting from the use of a wheelchair, scooter, walker, leg brace(s) and/or other supports
- Nervous system condition, for example, migraine headaches, Parkinson's disease, multiple sclerosis (MS)
- Neurodivergence, for example, attention-deficit/hyperactivity disorder (ADHD), autism spectrum disorder, dyslexia, dyspraxia, other learning disabilities
- Partial or complete paralysis (any cause)
- Pulmonary or respiratory conditions, for example, tuberculosis, asthma, emphysema
- Short stature (dwarfism)
- Traumatic brain injury

Disability Status

Please select



PUBLIC BURDEN STATEMENT: According to the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless such collection displays a valid OMB control number. This survey should take about 5 minutes to complete.

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Submit Application

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