

## Propulsion Systems Engineer Interview Questions

1. Tell me how you organize, plan, and prioritize your work.
2. Provide an experience in which you conducted an effective experimental, operational, or stress test on a prototype of a system or equipment.
3. Share an experience you had in dealing with a difficult person and how you handled the situation.
4. Share an experience in which you successfully shared a difficult piece of information. (Make sure that the candidate has open lines of communication.)
5. Share an experience in which you oversaw the assembly, fabrication, construction, maintenance, or modification of equipment. How did you communicate to the staff what you wanted?
6. Share an experience when you applied new technology or information in your job. How did it help your company?
7. Give me an example of when you thought outside of the box. How did it help your employer?
8. Tell me about an experience in which you analyzed information and evaluated results to choose the best solution to a problem.
9. Would you consider analyzing data or information a strength? How so?
10. In your experience, what is the key to ensuring your company was compliant with all laws, regulations and standards that were applicable to your area of responsibility?
11. Share an effective approach to working with a large amount of information/data. How has your approach affected your company?
12. Tell me about the last time you monitored or reviewed information and detected a problem. How did you respond?
13. Share an example of a time you had to gather information from multiple sources. How did you determine which information was relevant?

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14. Tell me about a time when your ability to analyze needs and product requirements helped you create an effective design or make an informed decision to benefit your company.

15. Provide a time when you were able to identify a complex problem, evaluate the options, and implement a solution. How did the solution benefit your employer?

16. Name a time when you identified strengths and weaknesses of alternative solutions to problems. What was the impact?

17. Share a time when you successfully used scientific rules or methods to solve a problem at work.

18. Please share an experience in which you presented to a group. What was the situation and how did it go?

19. How would you rate your writing skills? (Ask for an example that demonstrates great writing skills.)

20. Provide an example of a time when you were able to demonstrate excellent listening skills. What was the situation and outcome?

21. Provide an example of a time when you successfully organized a diverse group of people to accomplish a task.

22. What have you found to be the best way to monitor the performance of your work and/or the work of others? Share a time when you had to take corrective action.

23. Share an experience in which your attention to detail and thoroughness had an impact on your last company.

24. Share an experience in which your ability to consider the costs or benefits of a potential action helped you choose the most appropriate action.

25. Share an experience in which your understanding of a current or upcoming problem helped your company to respond to the problem.

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26. Share an example of when you went above and beyond the "call of duty". (Look for answers that show the candidate is dependable.)

27. Provide an example of when you were persistent in the face of obstacles.

28. Name a time when your creativity or alternative thinking solved a problem in your workplace.

29. Share a time when you willingly took on additional responsibilities or challenges. How did you successfully meet all of the demands of these responsibilities? (Make sure the candidate is a self-starter and can demonstrate some initiative.)

30. Share an experience in which you conducted a test of a product, service, or process and successfully improved the quality or performance.

31. Share an example of when you established and accomplished a goal that was personally challenging. What helped you succeed?

32. Name a time when your advice to management led to an improvement in your company or otherwise helped your employer.

33. Provide an example when your ethics were tested.

34. Share an experience in which you successfully coordinated with others. How about a coordination effort that was not as successful?

35. How do you balance cooperation with others and independent thinking? Share an example. (Try to determine if the candidate has a cooperative attitude or is otherwise good-natured.)

36. Share an experience in which your diligence of inspecting equipment, structures, or materials helped you identify a problem or the cause of a problem.

37. Provide a time when you worked in a rapidly evolving workplace. How did you deal with the change? (Make sure the candidate is flexible.)

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38. Provide a time when you dealt calmly and effectively with a high-stress situation.
39. Provide an experience in which you effectively developed, evaluated, or modified a design using computer analysis methods.
40. Describe a conceptual design you formulated of a product or system which successfully met customer requirements.
41. Share an experience in which you successfully directed and coordinated the activities of a staff. What methods made you successful?
42. Share an experience in which your willingness to lead or offer an opinion helped your company.
43. Share an experience in which you investigated and resolved a difficult technical problem for a customer.
44. In your experience, what is the key to developing a good team? (Look for how they build mutual trust, respect, and cooperation.)
45. Tell me about a time when you developed your own way of doing things or were self-motivated to finish an important task.
46. Describe an experience in which you identified the educational needs of your students and successfully developed a way to teach/train them.
47. Tell me about a research and/or development program which you directed.
48. What is the state of your records of performance? What is one thing you are trying to improve?
49. Share an effective method you have used to evaluate product data and design for conformance to engineering principles, customer requirements, and/or quality standards.
50. Describe how you determine the feasibility, productibility, cost, or production time of products.
51. Name a time when your patience was tested. How did you keep your emotions in check?

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52. Describe an effective piece of documentation, such as a report or handbook, you have written. What methods did you use?

53. Describe design criteria you developed for aeronautical or aerospace products or systems. How did it benefit your company?

54. Provide an experience that demonstrates your ability to manage time effectively. What were the challenges and results?

55. Share an experience in which you were able to generate a new design or modify a current design to better serve the needs of your customers.

56. Provide an example when you were able to prevent a problem because you foresaw the reaction of another person.

57. Share an experience in which you used new training skills, ideas, or a method to adapt to a new situation or improve an ongoing one. (Look for the candidate's ability to learn.)

58. Share an experience in which you resolved a difficult malfunctioning or damage problem.

59. What are some long-range objectives that you developed in your last job? What did you do to achieve them?

60. Please share an experience in which you successfully taught a difficult principle or concept. How were you able to be successful?

61. What factors do you consider when evaluating and selecting vendors?

62. Describe a time when you successfully persuaded another person to change his/her way of thinking or behavior.

63. Provide an experience in which you were sensitive to someone's needs or feelings. How did your helpfulness affect your work environment?

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64. Tell me about the last time you oversaw the work of someone else. How did you effectively motivate, develop, and direct the worker(s)?
65. Describe an experience in which your ability to work well with others and reconcile differences helped your company or employer. (Make sure the candidate knows how to negotiate.)
66. Share an experience in which personal connections to coworkers or others helped you to be successful in your work. (Make sure candidate works well with others.)
67. Share an experience in which you successfully reduced the negative environmental impact of an aerospace engineering design.
68. What factors do you consider when researching new materials? How do you locate relevant information?
69. What factors do you consider when evaluating biofuel performance specifications?
70. Describe a filtration system you designed or engineered which effectively reduced harmful emissions.
71. Describe an aerospace system you designed or modified to reduced polluting emissions.
72. Provide an experience in which your ability to actively find ways to help people improved your company or your own work ethic.
73. Provide an example of when you set expectations and monitored the performance of subordinates. What guidance and direction did you find most effective?
74. Please share with me an example of how you helped coach or mentor someone. What improvements did you see in the person's knowledge or skills?
75. Describe a time when you successfully serviced, repaired, calibrated, or tested a device that operates mainly by electronic principles.
76. What is the most challenging part of budgeting for you?

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