

Engineering Quiz 2018

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The engineering quiz is designed to take responses from the person filling the quiz and output the 2 most likely engineering programs based on their answers provided.

There are 13 potential programs:

1. Biomedical Engineering
2. Chemical Engineering
3. Civil Engineering
4. Computer Engineering
5. Electrical Engineering
6. Environmental Engineering
7. Geological Engineering
8. Management Engineering
9. Mechanical Engineering
10. Mechatronics Engineering
11. Nanotechnology Engineering
12. Software Engineering
13. Systems Design Engineering

The model that calculates the probabilities is based on 9 questions. For each question the model expects an integer depending on the option selected. The integers denote which response was selected for each question and will be used to determine the most probable engineering program. The questions along with the integer value are as follows.

1. What field interests you the most? (field\_interest)
2. Finance
3. Manufacturing
4. Software Development
5. Research
6. Construction
7. I would like to have been part of the team that was responsible for: (team\_responsible)
8. The Automobile
9. The Internet
10. The CN Tower
11. Solar Panels
12. The Robot
13. Penicillin
14. When you start work, ideally you would want to... (start\_work)
15. Work for a large corporation
16. Work for a small company
17. Work in a start up
18. I would rather design something that... (design\_something)
19. I can see it function and prove it works, but can't necessary touch
20. I can see function and tangibly touch the parts
21. I would rather work as part of a... (work\_partof)
22. Focused team
23. Multidisciplinary team
24. When working on a project would you rather (on\_project)
25. Know all the requirements for the project at the beginning
26. Continuously change and update requirements as you go
27. What cause do you care about the most? (care\_most)
28. Health
29. Environment
30. Human Rights
31. Bringing technology to developing countries
32. You are most likely to eavesdrop in a conversation regarding (eavesdrop)
33. A groundbreaking metal that will create stronger cars, planes and spaceships for a cheaper cost
34. A new way to deal with movement in the Earth’s surface to protect buildings from earthquakes
35. A microchip that is smaller than usual but twice as powerful as before
36. A factory that is able to 100% rely on robotics while producing no defected products
37. In an ideal setting, you are working with: (working\_with)
38. People
39. Computers
40. Business Processes
41. Machinery

The model takes in the parameters in the same way the questions are presented in this document and outputs two strings of the most probable engineering program