

Biosciences: 3.- Health 3.5 Consulting



Consulting

Brian L. Joiner, Encyclopaedia Statistical Sciences: Statistical Consulting.

- 1. Have a genuine desire to solve real problems and help others to solve problems.
- 2. Be able to help investigators formulate their problem in quantitative terms.
- 3. Be able to listen carefully and to ask probing questions.
- 4. Have a broad knowledge and true understanding of statistical and scientific methods.
- 5. Be able to adapt existing statistical procedures to novel environments.
- 6. Be able to locate or develop good statistical procedures in a timely fashion.
- 7. Be able to keep abreast of developments in statistics.
- 8. Be willing to meet deadlines, even if it requires extra effort.
- 9. Be able to understand something about the matter under study and speak a bit its language.
- 10. Be a good teacher -much success in consulting depends on being able to help others understand statistical tools, and their strengths and weaknesses.
- 11. Be willing to settle for a reasonably correct approximate solution, then go on the next problem.

Block 3.5 Consulting



- 12. Be able to identify important problems (and thus avoid spending too much time on projects of little significance).
- 13. Have the confidence to use as simple a procedure as will get the job done, be it design or analysis.
- 14. Be able to convince others of the validity of a solid solution and see to it that proper action is taken.
- 15. Be able to use computers effectively and direct others in their use.
- 16. Be a good problem solver.
- 17. Be willing to meet scientific colleagues regularly on their home ground, and take the responsibility to meet and communicate with all members of the working team.
- 18. Be diplomatic and know when to bend, when to stand firm, and how to help smooth over conflicts among other team members.
- 19. Be willing to get some experience in the actual collection of the data.
- 20. Be willing to take the time to check and double-check procedures and results.
- 21. Be able to communicate effectively in writing as well as orally (this often includes helping colleagues write their reports as well).
- 22. Be able to make a good estimate of how much effort will be required to solve the problem without actually having to solve the problem itself.