

**Student Name:** Hainadine Chamane  
**Programme of Study:** MSc Computer Science  
**Organisation Name:** The University of Essex Online

**Discuss the importance of a postgraduate degree in the Computer Science field.**

## **Introduction**

This essay aims to highlight the value of the MSc in Computer Science. Furthermore, by including specific experiences and observations, this essay will evaluate how relevant postgraduate studies are and discuss the program's relevance to society and students' aspirations.

The field of study MSc in Computer Science, as defined by Fincher et al. (2001), is a program that teaches students the skills of teamwork, research, and decisions while also covering algorithms, computing science, hardware and software design, and human connection.

According to Brookshear et al. (2012), Computer Science aims to establish a scientific basis for issues related to informatics as a whole and provides the foundation for tomorrow's computing infrastructure and support for today's computing applications. Moreover, as Dodig-Crnkovic (N.D) points out, Computer Science is a study of theoretical and applied disciplines in developing and using computers in many areas of informatics.

Studying an MSc Computer Science degree is essential to help students expand their knowledge and abilities to be better prepared to influence future technical developments in computer-based systems (Bikanga Ada & Foster, 2021)

According to Jaimes et al. (2007), almost everything in our life, and everything we interact with, includes computing and computer technology. An educated individual in the twenty-first century must have specific skills, one of which is understanding the various computing dimensions.

In the same way, computer science is valuable because it helps to break down complex issues into parts and discover answers. Then, could communicate these solutions in a way that both humans and machines could comprehend (Waller, 2016). Moreover, computer scientists play a crucial part in ensuring the health of almost any firm because they are in charge of many critical duties at contemporary organisations (Hofstein et al. 2021).

Based on personal experience, it is impossible to think of any large, medium, or small business today that does not employ a computer or software since technology is heavily promoted daily and is the driving force behind most enterprises. As a result, to access any content, people will always need a computer, tablet, smartphone, or other gadget made by a professional or computer scientist. Consequently, businesses will always require a qualified professional to develop and manage their website, database, and network security, so everything works safely and is dependable, practical, and user-friendly. After completing the MSc in Computer Science, an IT professional could lead teams, delegate duties, coach, and conduct research better than others. Additionally, a postgraduate student significantly impacts society because of the knowledge he obtained in the master's programme.

A postgraduate degree will positively affect the student because comprehending how computer science works to solve human problems would add the knowledge of understanding better how to deal with overwhelming choices and connect with others Tedre, M. (2014).

As previously noted, we live in a digital era where most sectors rely on data and software. IT and computer science affect every aspect of life, and thanks to technology, the world is today more developed, quicker, and more linked. However, this did not supernaturally take place. We only get here because of the brilliant brains of IT experts, who harnessed their love of technology to create the devices and informatic tools that constantly assist us (Friedrich et al., 2011).

Students who enrol in this programme hope to gain advanced expertise adding to prior professional experience; they anticipate that after completing the programme, they will have more opportunities to apply this knowledge effectively in their daily lives and professional careers (Wassberg, 2020).

Furthermore, by finishing this course, as a tech enthusiast, the student will benefit from upcoming initiatives working with more accuracy and precision in new projects to enhance the tech market for the better.

## **Conclusion**

In summary, this essay highlights and discusses the importance of the Master in Computer Science. In addition, it includes punctual observations and real testimonials from academic researchers that make it possible to assess the relevance of the

postgraduate course for the student and society. Last but not least, it highlights a personal point of view regarding the importance of this program and the expectation of its application and contribution to the community after its conclusion. However, despite the fact of all excitement at the start of the course, after the first week, it is clear that the master's programme is a study that requires a lot, if not all, of the student's attention to assimilate and get into the rhythm of the study. Furthermore, the student will need a mindset and focus on the end goal, the Computer Science MSc.

## References:

Fincher, S., Petre, M. & Clark, M. (2001). *Computer Science Project Work: Principles and Pragmatics*. [online] Google Books. Springer Science & Business Media. Available at: [https://www.google.co.uk/books/edition/Computer\\_Science\\_Project\\_Work/KS-eAUWxmcQC?hl=en&gbpv=1&dq=MSc+computer+science+introduction&pg=PR9&printsec=frontcoverntcover](https://www.google.co.uk/books/edition/Computer_Science_Project_Work/KS-eAUWxmcQC?hl=en&gbpv=1&dq=MSc+computer+science+introduction&pg=PR9&printsec=frontcoverntcover). [Accessed 19 Jan. 2023].

Anon (n.d) computer science A N O V E R V I E W. [online] Available at: [http://www.r-5.org/files/books/computers/overviews/software/Glenn\\_Brookshear-Computer\\_Science\\_An\\_Overview-EN.pdf](http://www.r-5.org/files/books/computers/overviews/software/Glenn_Brookshear-Computer_Science_An_Overview-EN.pdf) [Accessed 18 Jan. 2023].

Dodig-Crnkovic, G. (n.d.). *Scientific Methods in Computer Science*. [online] Available at: [https://john.cs.olemiss.edu/~hcc/researchMethods/2016spr/notes/localcopy/cs\\_method.pdf](https://john.cs.olemiss.edu/~hcc/researchMethods/2016spr/notes/localcopy/cs_method.pdf). [Accessed 19 January 2023].

Bikanga Ada, M. & Foster, M. E. (2021). *Enhancing postgraduate students' technical skills: perceptions of modified team-based learning in a six-week multi-subject Bootcamp-style CS course* | EndNote Click. [ONLINE] Available at: <https://click.endnote.com/viewer?doi=10.1080%2F08993408.2021.1959174&token=WzM5NjlyODIsIjEwLjEwODAvMDg5OTMOMdguMjAyMS4xOTU5MTc0Ii0.Vzoh1bN4PtxBqBeuqM2ako1xn1g>. [Accessed 19 January 2023].

A. Jaimes & D. Gatica-Perez, N. Sabe, T. S. Huang (2007). Guest Editors' Introduction: *Human-Centered Computing--Toward a Human Revolution* | EndNote Click. [ONLINE] Available at: <https://click.endnote.com/viewer?doi=10.1109%2Fmc.2007.169&token=WzM5NjlyODIsIjEwLjEwODAvMDg5OTMOMdguMjAyMS4xOTU5MTc0Ii0.Vzoh1bN4PtxBqBeuqM2ako1xn1g>. [Accessed 19 January 2023].

Waller, D. (2016). *GCSE Computer Science for OCR Student Book*. [online] Google Books. Cambridge University Press. Available at: [https://www.google.co.uk/books/edition/GCSE\\_Computer\\_Science\\_for\\_OCR\\_Student\\_Bo/-UjGCwAAQBAJ?hl=en&gbpv=1&dq=the+importance+of+study+computer+science&pg=PR5&printsec=frontcover](https://www.google.co.uk/books/edition/GCSE_Computer_Science_for_OCR_Student_Bo/-UjGCwAAQBAJ?hl=en&gbpv=1&dq=the+importance+of+study+computer+science&pg=PR5&printsec=frontcover) [Accessed 19 Jan. 2023].

Hofstein, A., Arcavi, A., Eylon, B.-S. & Yarden, A. (2021). *Long-term Research and Development in Science Education: What Have We Learned?* [online] Google Books. BRILL. Available at: [https://www.google.co.uk/books/edition/Long term Research and Development in Sc/0vVNEAAQBAJ?hl=en&gbpv=1&dq=pdf+A+Tale+of+Two+Countries:+Successes+and+Challenges+in+K-12+Computer+Science+Education+in+Israel+and+the+United+States&pg=PA159&printsec=frontcover](https://www.google.co.uk/books/edition/Long_term_Research_and_Development_in_Sc/0vVNEAAQBAJ?hl=en&gbpv=1&dq=pdf+A+Tale+of+Two+Countries:+Successes+and+Challenges+in+K-12+Computer+Science+Education+in+Israel+and+the+United+States&pg=PA159&printsec=frontcover) [Accessed 19 Jan. 2023].

Tedre, M. (2014). *The Science of Computing: Shaping a Discipline*. [online] Google Books. CRC Press. Available at: [https://www.google.co.uk/books/edition/The Science of Computing/l2tYBQAAQBAJ?hl=en&gbpv=1&dq=Newell](https://www.google.co.uk/books/edition/The_Science_of_Computing/l2tYBQAAQBAJ?hl=en&gbpv=1&dq=Newell) [Accessed 19 Jan. 2023].

Friedrich, R., Peterson, M. & Koster, A. (2011). *The Rise of Generation C*. [online] Available at: [https://www.immagic.com/eLibrary/ARCHIVES/GENERAL/BAH\\_US/S110207F.pdf](https://www.immagic.com/eLibrary/ARCHIVES/GENERAL/BAH_US/S110207F.pdf). [Accessed 19 January 2023].

Wassberg, J. (2020). *Computer Programming for Absolute Beginners: Learn essential computer science concepts and coding techniques to kick-start your programming career*. [online] Google Books. Packt Publishing Ltd. Available at: [https://www.google.co.uk/books/edition/Computer Programming for Absolute Beginn/3f30DwAAQBAJ?hl=en&gbpv=1&dq=Wassberg](https://www.google.co.uk/books/edition/Computer_Programming_for_Absolute_Beginners/3f30DwAAQBAJ?hl=en&gbpv=1&dq=Wassberg) [Accessed 19 Jan. 2023].