

Block 1

Hello and welcome!

Thank you for your willingness to participate in our survey. The goal of the survey is to obtain feedback on the University of Auckland's Software Engineering degree programme to ensure it is relevant to industry. Your responses will help us improve our programme. The survey should take approximately 10 minutes to complete. Please feel free to share this survey with others in the software industry who would like to help us shape the future of our degree program.

The participant information sheet (PIS) contains important information for participants and should be read before proceeding with the survey. You can access the PIS at http://kblincoe.github.io/survey/UOA_SE_PIS_Industry.pdf.

If you do not wish to take part in this survey, or if you do not agree with the conditions stated in the PIS, you may leave this survey by closing this window.

By clicking on "Next" you agree to the following:

"I am 16 years of age or older. I have read and understood the information describing the aims and content of this project. I understand that by submitting this survey electronically, I agree to participate in the project under the terms detailed in the supplied PIS."

Approved by the University Of Auckland Human Participants Ethics Committee on 28 June 2016 for three years. Reference Number 017756.

Default Question Block

Did you graduate from the University of Auckland?

- ☐ Yes
- ☐ No

If you graduated from UoA, please state your year of graduation and the degree you obtained.

What is your age?

- ☐ 20-25
- ☐ 26-35
- ☐ 36-45
- ☐ 46-55
- ☐ 55+

What is the highest level of education you have completed?

- ☐ High school degree
- ☐ Bachelors degree
- ☐ Honours degree
- ☐ Masters degree
- ☐ Doctoral degree

What is your gender?

- ☐ Male
- ☐ Female
- ☐ Gender diverse

How many years of experience do you have in the Software Engineering industry?

What is your current job title?

e.g. Senior Software Engineer, Software Developer, Software Designer, etc.

What are the roles and responsibilities of your current job?

e.g. Designing, coding and debugging applications in various software languages; Software testing and quality assurance; Project Planning and Project Management; etc.

Attitudes towards the degrees of Graduates in the Software Industry

Software Engineering is a specialisation of the Bachelor of Engineering (Honours) programme and is offered by the Department of Electrical and Computer Engineering in the Faculty of Engineering. It is a four-year degree that is accredited by the Institution of Professional Engineers New Zealand and is, therefore, internationally recognised. The programme is quite structured with the

first year being an overview of general engineering. Students begin to specialise in Software Engineering in their second year.

Computer Science can be taken as a major in the three-year Bachelor of Science programme. It is offered by the Department of Computer Science in the Faculty of Science. Course choice is more flexible than for Software Engineering and the entry criterion is not as strict.

Do you believe there is a benefit graduating with a Software Engineering degree compared to a Computer Science degree?

- ☐ Yes
- ☐ No

If yes, what is the benefit?

Do you believe there is a benefit graduating with a Computer Science degree compared to a Software Engineering degree?

- ☐ Yes
- ☐ No

If yes, what is the benefit?

Have you ever worked with a graduate of a Software Engineering degree?

- ☐ Yes
- ☐ No
- ☐ Unsure

If yes, in your experience, is there a difference in the skill set of a graduate from a Software Engineering degree and a graduate from a Computer Science degree?

- ☐ Yes
- ☐ No

If yes, what is the difference?

Are you involved in hiring Software Engineers or other related positions?

- ☐ Yes
- ☐ No

How important are each of these abilities / knowledge areas in your hiring decisions for Software Engineering related positions?

	Not at all important	Slightly important	Moderately important	Very important	Extremely important
Requirements engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software architecture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Programming	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Object orientated software development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software testing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software quality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Agile and lean software development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data structures and algorithms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Human computer interaction (HCI)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Computer graphics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Database systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mathematical modelling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Computer security	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Machine learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Formal specification & design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Operating systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Digital systems design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Computer graphics and image processing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Computer networks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Microcomputers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Embedded systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Artificial intelligence	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software development methodologies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Parallel and distributed computing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
High performance computing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Robotics & intelligent systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Algorithms for optimisation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Project management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exposure to latest tools and technologies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Industry experience	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Working in a team	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Working independently	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solving problems independently	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solving problems in a team	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communication skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Professionalism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Ethics

☐☐☐☐☐

Of the software engineers you currently employ or manage, how satisfied are you with their ability in each area?

	Extremely dissatisfied	Somewhat dissatisfied	Neither satisfied nor dissatisfied	Somewhat satisfied	Extremely satisfied
Requirements engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software architecture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Programming	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Object orientated software development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software testing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software quality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Agile and lean software development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data structures and algorithms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Human computer interaction (HCI)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Computer graphics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Database systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mathematical modelling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Computer security	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Machine learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Formal specification & design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Operating systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Digital systems design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Computer graphics and image processing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Computer networks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Microcomputers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Embedded systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Artificial intelligence	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software development methodologies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Parallel and distributed computing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
High performance computing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Robotics & intelligent systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Algorithms for optimisation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Project management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Exposure to latest tools and technologies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Working in a team	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Working independently	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solving problems independently	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solving problems in a team	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communication skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Professionalism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ethics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you had two candidates for a Software Engineering position, one with a four year Software Engineering degree and one with a Computer Science degree, would the degree influence your hiring decision?

- ☐ Yes, I would prefer to hire a candidate with a Computer Science degree
- ☐ Yes, I would prefer to hire the candidate with a Software Engineering degree
- ☐ No, the difference between these degrees would not influence my hiring decision

Please explain the reason to your response to the above question

Have you hired any graduates from the University of Auckland Software Engineering degree program?

☐ Yes

☐ No

If you have hired graduates of the University of Auckland Software Engineering degree program, did they meet your expectations?

☐ Yes

☐ No

If they did not meet your expectations, please explain why here

Block 2

Future contact. If any of the below are selected, please provide your contact details below.

- ☐ I would like to further discuss the SE degree program with UoA faculty members
- ☐ I am happy to be contacted if you want to learn more about my responses
- ☐ I would like to have a summary of the final results
- ☐ I would like to be invited to future software engineering research initiatives

Name (optional)

Contact details (optional)

Approved by the University Of Auckland Human Participants Ethics Committee on 28 June 2016 for three years. Reference Number 017756.

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