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A WORLD
TOP 100
UNIVERSITY

Graduate Apprenticeships

A Robot's Story

WORLD
CHANGING
GLASGOW

THE SUNDAY TIMES
GOOD
UNIVERSITY
GUIDE
2024
SCOTTISH
UNIVERSITY
OF THE YEAR



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Agenda

- Graduate Apprenticeships Overview
- Framework
- Work-Based Projects
- Robot Week!
- Lessons Learned & Next Steps
- Conclusions





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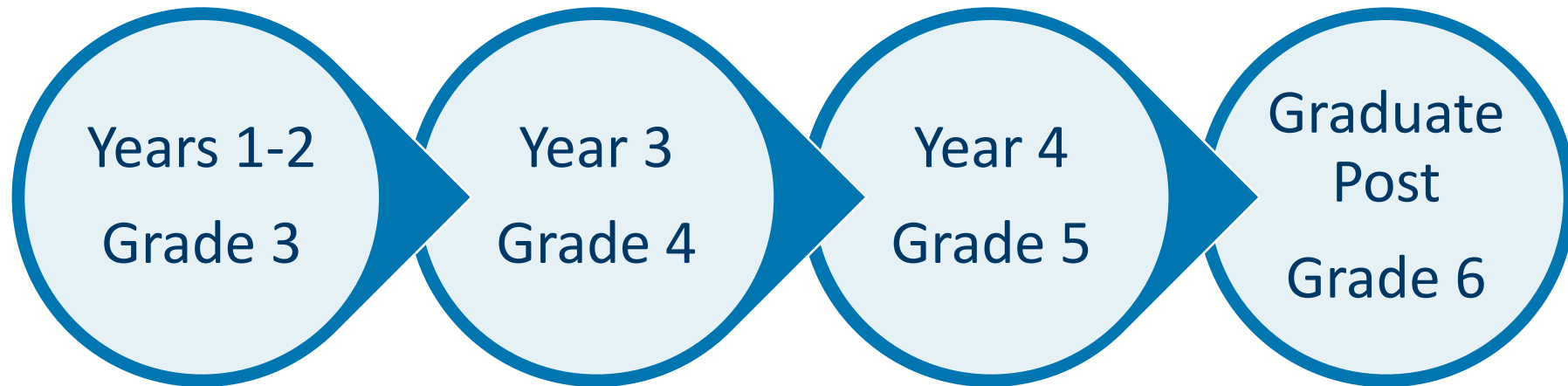
What is a Graduate Apprenticeship?

- University of Glasgow Partner & Employer
- BSc Software Engineering
- Work Blocks: 2 days every two weeks
- Full-time May-October





Framework – Career Progression





Work Based Projects

- 2 x Practical Software Projects
- Harness Innovative Ideas
- Proof-of-Concepts
- Focused: Few BAU Distractions





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Example Projects

- Creating Alexa Timetabling Skills
- Testing the limits of Microsoft Power Apps
- Testing Conversational Interfaces to Deliver Information via a Robot!

$$x_{1m}^{(2)+} = \pm f_{1m}^{(2)} + \varepsilon f_{1m} + \frac{1}{2} H_{1m}^{(2)} \varepsilon^2 d(t_{1m}, t_{2m}) \pm \frac{3}{8} H_{1m}^{(2)} \varepsilon^4 (d(t_{1m}, t_{2m}))^2 + \dots$$

$$= \pm f_{1m}^{(1)} + \varepsilon f_{1m} + \sum_{k=1}^{\infty} (-1)^k \varepsilon^{2k} a_{2k} \left(\frac{\partial f_{1m}}{\partial t_{1m}} \right)$$





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Robot Week!

- Proof-of-Concept
- Real World Application
- Building Partnerships





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Robot Week!

HELP US SHAPE THE FUTURE



Pepper the Robot can help you with things like:

Directions - 'where is room 659?'

Helpdesk - 'how do I change my password?'

Tell us what you think of
Pepper and what else
they could help you with.
Follow the QR code



www.glasgow.ac.uk/myglasgow/uofglifeapp







Benefits and Outputs

- Art of the Possible
- Knowledge Transfer & Capacity Building
- Project Reports feedback/findings



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Lessons and Next Steps

- Stay Agile, Fail Fast, Deliver value
- Set Expectations
- Academic Theory Vs Practical Implementation
- Technical Architecture to Support Experimentation





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Take Aways

- It's the Journey not the Destination!
- “Just get out of the way of innovation” – (Adrian Cockcroft)
- ‘Fast path’ for new ideas



Our Apprentices!





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Thank You for Listening!

Sara.Somerville@glasgow.ac.uk
Senior Systems Development Manager
Information Services

<https://www.linkedin.com/in/sarasomerville/>

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