

Quantum computing internship schemes at Riverlane

Riverlane builds ground-breaking software to unleash the power of quantum computers. Backed by leading venture-capital funds and the University of Cambridge, we develop software that transforms quantum computers from experimental technology into commercial products.

About our internships

- Full time, based in Cambridge (Covid permitting – summer 2020's interns successfully mixed remote and office working)
- Work alongside a team of expert software developers, computer scientists, mathematicians, quantum information theorists, computational chemists and physicists
- Work with a dedicated supervisor
- Produce a concrete output
- Competitive stipend

What you will do

- Develop an understanding of quantum algorithms and industrial applications of quantum computers
- Research, devise, develop and/or implement algorithms and software to enhance Riverlane's capabilities
- Contribute to one or more projects that are core to Riverlane's technical goals
- Discuss ideas with colleagues and communicate research in the form of presentations and reports

Riverlane offer two internship schemes, one aimed at undergraduate and master's students, and another aimed at PhD students.

Undergraduate and master's students

Duration: 10-12 weeks during summer 2021

Competition opens: 18 Jan 2021

Application deadline: 19 Feb 2021

Interviews: w/c 8 March 2021

Requirements:

- A current undergraduate (at least third year) or master's student in a highly numerate subject, such as a science, mathematics, or engineering
- Experience with at least one programming language
- Excellent critical thinking and problem-solving ability
- Strong communication skills, both written and verbal
- Ability to take initiative and to work well as part of a team

PhD students

Duration: 3-6 months

We run 2 – 3 competitions a year; keep an eye on our website for details

Requirements:

- Currently pursuing a PhD degree in a highly numerate subject, such as a science, mathematics, or related technical field
- Evidence of creative, high-quality academic work
- Experience with at least one general purpose programming language
- Excellent critical thinking and problem-solving ability
- A track record of communicating scientific results to colleagues and other audiences
- Ability to take initiative and to work well as part of a team
- Passion for translating academic expertise into an applied industrial setting

