BECOME A BIOLOGICAL DATA SCIENTIST

MSc TECHNOLOGIES AND ANALYTICS IN PRECISION MEDICINE

STUDY PRECISION MEDICINE, COMPUTATIONAL BIOLOGY, GENETICS & GENOMICS, DATA ANALYTICS, CONNECT HEALTH, LEARN TO CODE AND MORE

RCSI
UNIVERSITY
OF MEDICINE
AND HEALTH
SCIENCES

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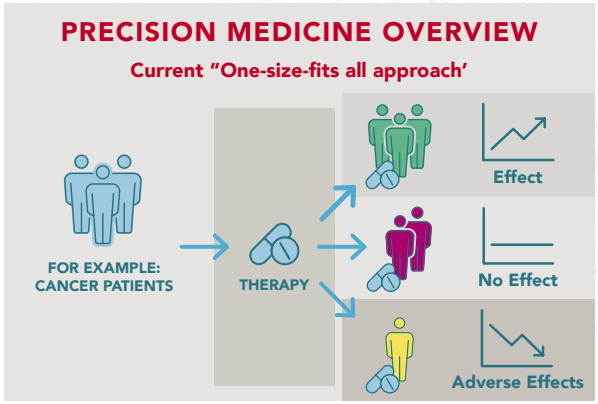
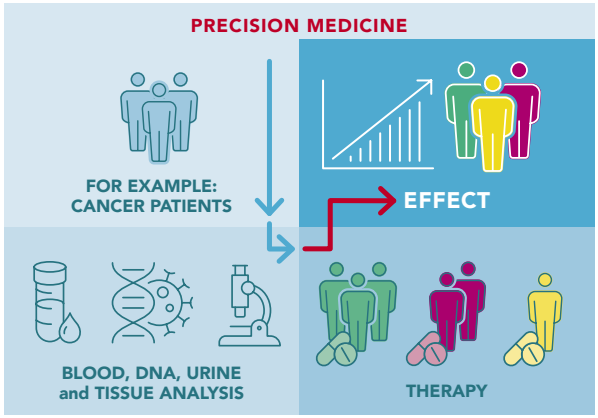
INTRODUCTION

Do you want to become a biological data scientist? And be involved in the cutting-edge field of Precision Medicine. This exciting new discipline involves optimising therapeutic benefits by personalising treatment for patients through genetic profiling and in parallel enhancing diagnosis across various disease types. As the life sciences sector embraces Precision Medicine, there is significant demand for certain specialised skills to enable and support future career pathways. To address this demand, RCSI has designed a new state-of-the-art Masters (MSc) programme in Technologies and Analytics in Precision Medicine.

The programme has a core focus on Precision Medicine and Data analytics and how to analyse healthcare data.





WHAT MAKES THIS MASTERS DIFFERENT?

- Develop advanced knowledge in the areas of **Genetics/Genomics & Precision medicine**
- Learn how to code and use.programming language including R and Python to **analyse Big Data** generated from a **healthcare setting**
- Understand how cutting edge **Connected Health** technologies and data are improving health care
- Develop core skills in **Innovation & Leadership**

MSc IN TECHNOLOGIES AND
ANALYTICS IN PRECISION MEDICINE

YOUR FUTURE CAREER

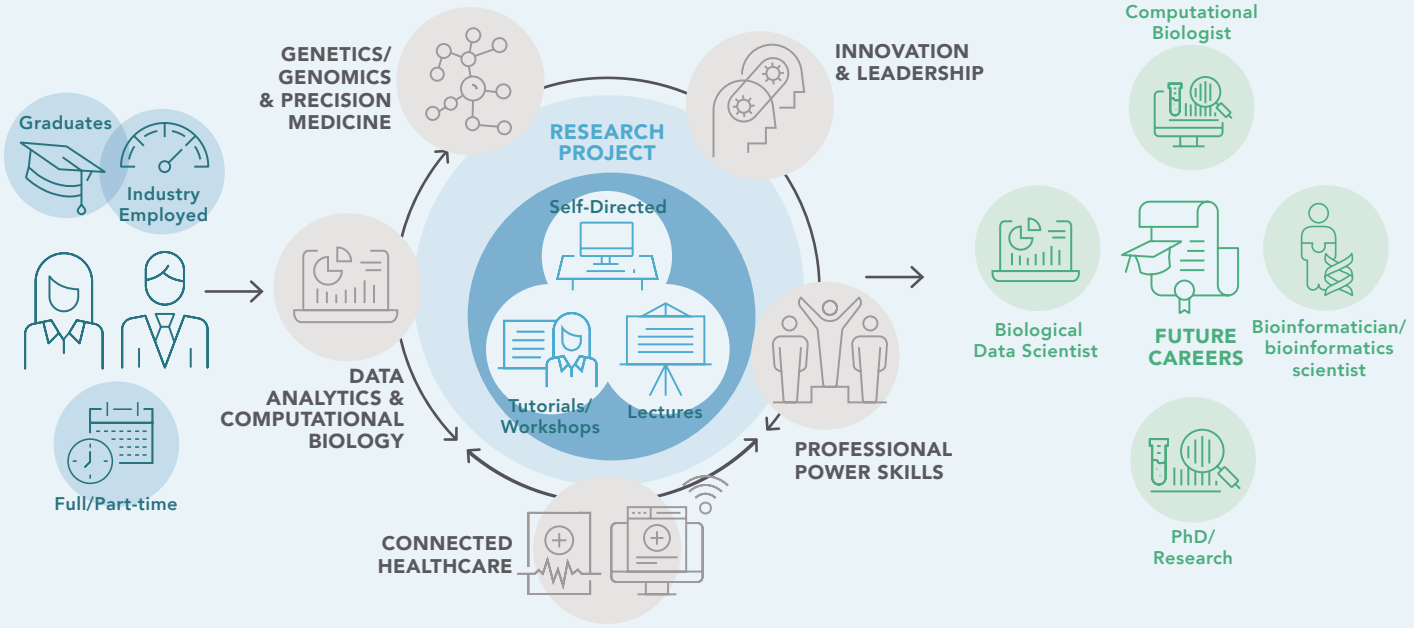
We believe this Masters will equip students to become leaders in the health and bio-pharmaceutical industries of the future. Graduates of this programme will be in a position to apply for numerous roles across the bio-pharmaceutical industry as well as healthcare sectors including:

> Biological Data Scientist
> Computational Biologists
> Bioinformatician / Bioinformatics scientist

In addition, this course will further enhance the student's academic profile and therefore make them highly competitive for PhD applications across both national and international research/universities.

MSc in Technologies & Analytics in Precision Medicine

Study 5 key areas including Precision medicine, Genetics, Data analytics, Connected Health, Innovation. Students complete an industry lead or academic research project to combine all the areas they have learnt to date.



RCSI LEADING THE WORLD TO BETTER HEALTH

Dr Ben Ryan

Deputy Head of School, Programme Innovation, School of Pharmacy and Biomolecular Sciences.

"This exciting post graduate programme has been developed in view of the growing demands of the changing healthcare landscape, which has seen a major shift as it fuses digital technology with traditional science, leading to an increased focus on disease prevention, tailored therapies and Connected Heath. The programme sits within RCSI's School of Pharmacy and Biomolecular Sciences, has been supported by the Higher Education Authority under the Human Capital Initiative."

Dr Sudipto Das

Programme Director, School of Pharmacy and Biomolecular Sciences.

"This is a flexible programme that will benefit life science graduates in the area of biological, chemical, mathematical or statistical sciences or indeed the health sciences. Or perhaps you are working in a relevant industry and looking to upskill to further enhance your career. What makes this Masters unique is that RCSI have teamed up with a strong consortium of clinic experts and enterprise partners to provide their expertise and support in the development and delivery of the MSc to meet these critical skills gaps and future needs."

Human Capital Initiative
Rialtas na hÉireann Government of Ireland

This project has been supported by the Higher Education Authority under the Human Capital Initiative, Pillar 3. Grant agreement: 17796884 'Enabling Future Pharma'

MSc IN TECHNOLOGIES AND
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To offer maximum flexibility for our students, this Masters is offered on a **one year full-time** or **2-year part-time basis**. Students are required to gain **90 ECTS** credits based on taught modules and a research project. RCSI also offers entry Core Modules routes such as Postgraduate Diploma and Certificate.

CORE BLOCKS

- Block 1: **Genetics, Genomics & Precision Medicine**
- Block 2: **Data Analytics & Computational Biology**
- Block 3: **Connected Healthcare**
- Block 4: **Innovation and Leadership**
- Block 5: **Industry or Academic Research Project**

ENTERPRISE COLLABORATION

Our industry partners including **Congenica Ltd, Novartis Ireland, Aerogen, S3 Connected Health, Inflection Biosciences, Phion Therapeutics** and **Almac** help deliver this world class Masters programme to ensure students get the most relevant experience and exposure.

THE IRISH TIMES ARTICLE:

Scan this QR code to check out a recent article in The Irish Times about this exciting Masters.

ANNUAL FEES:

One year full-time: €9,000/ Two year part-time: €6,000 p.y

NON-EU FEES:

One year full-time: €25,000 (€7,000 competitive scholarship available for self-funded students)/ Two year part-time: €12,500 per year.

IF YOU WOULD LIKE MORE INFORMATION, PLEASE VISIT:
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