



Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LAIRGE

Postgraduate Scholarship Information Sheet

Scholarship Title	Continuous monitoring of acquired resistance to targeted therapy using circulating small RNA sequences
Reference number	WD_2022_14_WSCH
Supervisor(s)	Dr Sweta Rani (WIT), Dr. Jai Prakash Mehta (ITC), Dr. Edel A. McNeela (WIT), Dr. Orla O'Donovan (WIT)
Research Group	PMBRC
Department / School	Department of Science & Computing
Duration	48 Months
Status: Full-time / part-time	Full Time
Funding information	WIT PhD Scholarship 2022 (WSCH)
Value of the scholarship per year for 4 years	Stipend: €15,000 Fees: €4,500 Research costs- €2000
Teaching requirement (if any)	168 hours of academic development activities over the 4-year term of the PhD programme in line with scholarship requirements.
Closing date and time	This Competition will close on the 23rd May 2022 at 4pm Irish time.
Interview date	From 06/06/2022
PhD commencement date	September 2022

Post summary

Applications are invited for a PhD position funded by WIT Presidents PhD Scholarship Programme.

The work will involve working in areas of Cancer Biology. The ideal candidate would be someone with expertise in Molecular Biology and Bioinformatics. The work will involve working with High Throughput OMICS datasets such as Next Generation Sequencing and Proteomics datasets. The successful applicant will also be required to work with Cancer Cell Lines and Clinical Samples. Expertise in Cell and Molecular Biology and Bioinformatics will be highly desirable.

The aim of the project is to actively monitor acquired drug resistance from Clinical samples and develop a drug resistance model in Cell Lines. Genomic profiling will be performed on Clinical samples and Cell lines to identify biomarkers for acquired resistance.

Person specification

Qualifications

Essential

- **Honours Degree (minimum 2:1) or equivalent in** in bioinformatics, molecular biology, biomedical science or related discipline
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Desirable

- MSc degree in bioinformatics, molecular biology, biomedical or related discipline

Knowledge & Experience

Essential

- Molecular Biology
- Bioinformatics

Desirable

- Laboratory techniques such as Cell Culture, RNA isolation, qPCR.
- Next Generation Sequencing and OMICS data analysis.
- Programming skills R or Python.
- Excellent written and communication skills.

Skills & Competencies

Essential

- Applicants whose first language is not English must submit evidence of competency in English, please see [WIT's English Language Requirements](#) for details.
- Well organised, planning, and organisational skills
- Good spoken English and communication skills
- Proactive, enthusiastic, motivated, flexible, and problem-solving attitude
- Able to work independently and as a member of a team
- Good computer/IT skills

Desirable

- Scientific writing (in English) skills

Further information

For any informal queries, please contact *Dr Sweta Rani* on email: srani@wit.ie: or telephone: +00353 (0) 51 842472

For queries relating to the application and admission process please contact the Postgraduate Admissions Office via email rpgadmissions@wit.ie or telephone +353 (0)51 302883.

Website: www.wit.ie

Application procedure

Download the [Research Postgraduate Application Form](#) and return completed applications to rpgadmissions@wit.ie, quoting **WD_2022_14_WSCH** in the email subject line. Please note that paper submissions will not be accepted

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The Institute may decide to interview only those applicants who appear from the information available, to be the most suitable, in terms of experience, qualifications and other requirements of the post.

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