Laidlaw Undergraduate Research and Leadership Programme
2019 Applications Information Session

Joel McKeever  Student Employability Officer

Trinity Careers Service
22nd November 2018
What is the Laidlaw Undergraduate Research and Leadership Programme?

“Over the last twenty years I have journeyed through many routes and countries before knowing enough to create and implement ‘giving’ that works. I measure all my giving on whether it generates a long term difference for the recipient. What matters is whether the [student]’s life has been changed by their participation in our programmes…”

“Success is not just about talent or ability. It’s also about encouragement, whether from the family, school or University, and we need to do more to nurture people’s ability… I am proud of all the Scholars and what they have achieved.”

Lord Irvine Laidlaw of Rothiemay
What is the Laidlaw Undergraduate Research and Leadership Programme?

- Original, student-led research project
- Laidlaw Undergraduate Research and Leadership Programme
- Personal leadership Training
- Mentoring, Networking, Online learning
Trinity Graduate Attributes

To Act Responsibly

A Trinity Graduate
- Acts on the basis of knowledge and understanding
- Is self-motivated and able to take responsibility
- Knows how to deal with ambiguity
- Is an effective participant in teams
- Has a global perspective
- Is ethically aware

To Think Independently

A Trinity Graduate
- Has a deep knowledge of an academic discipline
- Can do independent research
- Thinks creatively
- Thinks critically
- Appreciates knowledge beyond their chosen field
- Analyses and synthesises evidence

To Develop Continuously

A Trinity Graduate
- Has a passion to continue learning
- Builds and maintains career readiness
- Commits to personal development through reflection
- Has the confidence to take measured risks
- Is capable of adapting to change

To Communicate Effectively

A Trinity Graduate
- Can present work through all media
- Is expert in the communication tools of a discipline
- Connects with people
- Listens, persuades and collaborates
- Has digital skills
- Has language skills
Laidlaw Community

University of Oxford

University of St. Andrews

University of Leeds

University of York

Durham University
What makes a Laidlaw Scholar?

<table>
<thead>
<tr>
<th>Qualities of Laidlaw Scholars</th>
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<tbody>
<tr>
<td>❖ Self-motivated and ambitious undergraduate students</td>
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<tr>
<td>❖ Talented students “irrespective of their background”</td>
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<tr>
<td>❖ Driven to develop their self-awareness, initiative, motivation, and creativity</td>
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<tr>
<td>❖ Excited to improve their employability</td>
</tr>
<tr>
<td>❖ Potential to develop their knowledge, skills, and confidence in both research and leadership</td>
</tr>
</tbody>
</table>
What do our Laidlaw Scholars at Trinity say?
Sarah Honan
3rd Year Law
Supervisor - Dr. David Fennelly

Justice After Destruction? Legal Avenues and Obstacles for Prosecution of the Yazidi Genocide’

“The Laidlaw Programme has exceeded my expectations. The research aspect embodies the meaning of self-directed learning and I’ve been so fortunate to study such a pivotal moment in legal history this early in my career. Equally, the dynamic nature of the leadership training ensures that each of us have been able to sow the seeds of a powerfully individualised model of leadership as opposed to a one-size-fits-all approach.

This has been a great privilege and I can’t wait to welcome the next group of Trinity Laidlaw Scholars!”
Impact of the antioxidant vitamin ergothioneine on the development of idiopathic pulmonary fibrosis

“The Laidlaw Programme gives me the opportunity to delve into research while engaging closely with a distinguished academic, as well as equipping me with leadership competencies and networking skills which strongly underpin my career development in academia.

From the unique experience, I have acquired a holistic set of transferable skills which enable me to develop my own research and leadership visions.”
Atom-by-atom structural characterization of nano-materials using aberration-corrected electron microscopy

“As a Laidlaw Scholar I have encountered new, challenging content beyond my course of study and society involvement. This material equips me with the skills needed to get the most from my academic research, and the business acumen necessary to strategically pursue my goals.

In addition, being part of a successful research group in Trinity, and a global community of scholars, has let me make lasting friends, grow my network, and explore my career options. I would recommend the program without reservation.”
Are you eligible to apply to be a Laidlaw Scholar?

You are . . .

A registered student

In the 2nd year of a 4 year undergraduate degree programme

OR

The 2nd or 3rd year of a 5 year undergraduate degree programme

OR

The 2nd or 3rd year of a 5 year integrated masters degree programme

Available to take part in all mandatory research and leadership sessions

Excited by the possibility of being one of Trinity’s Laidlaw Scholars!
Laidlaw Undergraduate Research and Leadership Programme Overview
<table>
<thead>
<tr>
<th>Commitments</th>
<th>Rewards</th>
</tr>
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<tbody>
<tr>
<td>❖ At least 6 days of leadership training</td>
<td>❖ €550 per week research stipend</td>
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<tr>
<td>❖ Networking events and skill sessions</td>
<td>❖ Opportunity to apply to a travel fund to support research beyond Dublin</td>
</tr>
<tr>
<td>❖ 10 full-time weeks of research over two summers</td>
<td>❖ Gain valuable transferable skills in project management, leadership, communications and team working</td>
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<td>❖ Additional time for online learning</td>
<td>❖ Undertake a unique research project with an experienced academic</td>
</tr>
<tr>
<td>❖ Blog posts/marketing support for the programme</td>
<td>❖ Increase your employability by developing your knowledge, skills and confidence</td>
</tr>
<tr>
<td>❖ Produce an academic poster</td>
<td>❖ Join a prestigious international community of Laidlaw Scholars</td>
</tr>
<tr>
<td>❖ Produce a 3 minute video</td>
<td>❖ Become involved in profile raising opportunities during the programme</td>
</tr>
<tr>
<td>❖ 3000 word final report</td>
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Applications close 1st February

November 2018

February March April May June July August September October November

Summer 5 weeks research (Phase 1)

Leadership 1
Two day training 10th/11th May

Leadership 2
One day training 9th November

Leadership 3 (residential)
Three nights, two days training 28th February – 1st March

Leadership events/ mentoring/online learning ongoing throughout Programme

Summer 5 weeks research (Phase 2)

Final Poster and Report Submission 25th September
Poster Presentation and Closing Event 15th October

2019

February 1st

Leadership 1
Two day training 10th/11th May

Leadership 3 (residential)
Three nights, two days training 28th February – 1st March

Welcome event 4th April

May 1st

Scholars announced 22nd March

Leadership 2
One day training 9th November

Two day training 10th/11th May

Leadership events/ mentoring/online learning ongoing throughout Programme

June 1st

8th

Leadership 4
One day training 3rd October

Leadership 1
Two day training 10th/11th May

Leadership 3 (residential)
Three nights, two days training 28th February – 1st March

September 1st

Leadership 2
One day training 9th November

Leadership events/ mentoring/online learning ongoing throughout Programme

October 1st

Leadership 3 (residential)
Three nights, two days training 28th February – 1st March

Leadership 2
One day training 9th November

Leadership events/ mentoring/online learning ongoing throughout Programme

November 1st

Leadership 4
One day training 3rd October

Join the international Laidlaw community

2020

2018

2020
Deirdre Power
3rd Year English Studies
Supervisor - Dr. Jane Carroll

Ireland's Empowered Girls: The Pollard Collection of Children's Books and its Contemporary Counterparts

Laidlaw Scholars
Undergraduate Research and Leadership Programme
Colin Wilburn
3rd Year Science
Supervisor - Dr. David McCloskey

Waste Heat Harvesting Using Thermally Charged Capacitors

Laidlaw Scholars
Undergraduate Research and Leadership Programme
Kate Johnston
3rd Year Medicine
Supervisor - Dr. Niamh O Connell

Comparison of patient experiences of chronic arthropathy in severe haemophilia before and after the switch over to extended half-life factor VIII and factor IX concentrates
# Leadership Programme

## Aims
- Develop academic and practical leadership skills
- Understand and cultivate your personal leadership style
- Improve your resilience and self-management
- Enhance your ability to problem solve and communicate successfully

## Example Activities
- Residential leadership weekends
- An individual Leadership development plan
- Coaching and mentoring
- Teamwork and classroom based activities
- Online learning and resources
- Leadership forums
<table>
<thead>
<tr>
<th>Laidlaw Scholar</th>
<th>Programme</th>
<th>Research Project Title</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andrew Cleary</td>
<td>Theoretical Physics</td>
<td>Leaking Exoplanets: Understanding how Stars affect Atmospheric Escape in Exoplanets</td>
<td>Professor Aline Vidotto</td>
</tr>
<tr>
<td>Aaron Koay</td>
<td>Pharmacy</td>
<td>Impact of the antioxidant vitamin ergothioneine on the development of idiopathic pulmonary fibrosis</td>
<td>Dr Carsten Ehrhardt</td>
</tr>
<tr>
<td>Colin Wilburn</td>
<td>Science</td>
<td>Waste Heat Harvesting Using Thermally Charged Capacitors</td>
<td>Professor David McCloskey</td>
</tr>
<tr>
<td>Conor Fitzmaurice</td>
<td>Medicine</td>
<td>Advances in Nanotherapy in Dermatology</td>
<td>Professor Alan Irvine</td>
</tr>
<tr>
<td>Deirdre Power</td>
<td>English Studies</td>
<td>Ireland's Empowered Girls: The Pollard Collection of Children's Books and its Contemporary Counterparts</td>
<td>Dr Jane Carroll</td>
</tr>
<tr>
<td>Elle Loughran</td>
<td>Science</td>
<td>The impact of codon usage on gene expression variation in human copy number variants and trisomies</td>
<td>Professor Aoife McLosaght</td>
</tr>
<tr>
<td>Kate Johnston</td>
<td>Medicine</td>
<td>Comparison of patient experiences of chronic arthropathy in severe haemophilia before and after the switch over to extended half-life factor VIII and factor IX concentrates</td>
<td>Dr Niamh O’ Connell</td>
</tr>
<tr>
<td>Luke Fehily</td>
<td>Nanoscience</td>
<td>Atom-by-atom structural characterization of nano-materials using aberration-corrected electron microscopy</td>
<td>Professor Valeria Nicolosi</td>
</tr>
<tr>
<td>Mollie O’Neill</td>
<td>Science</td>
<td>Investigating the potential of resveratrol synthase inhibition in management of Japanese knotweed</td>
<td>Dr Joanna McGouran</td>
</tr>
<tr>
<td>Philip Smyth</td>
<td>Medicine</td>
<td>Characteristics of patients presenting with traumatic brain injuries to an urban university department of emergency medicine</td>
<td>Dr Geraldine McMahon</td>
</tr>
<tr>
<td>Robert Clampett</td>
<td>Science</td>
<td>Helium Ion Beam Defects in the Creation of Silicon Waveguides</td>
<td>Professor David McCloskey/Professor Hongzhou Zhang/Professor James Lunney</td>
</tr>
<tr>
<td>Robert Power</td>
<td>Medicine</td>
<td>Examining the characteristics and germline mutations of upper gastrointestinal cancers in the Irish population</td>
<td>Professor Maeve Lowery</td>
</tr>
<tr>
<td>Samuel Bateman</td>
<td>Theoretical Physics</td>
<td>Helium-Ion microscopy of tumour cell-platelet interactions</td>
<td>Professor Hongzhou Zhang/Professor Maria Santos-Martinez</td>
</tr>
<tr>
<td>Sarah Honan</td>
<td>Law</td>
<td>Justice After Destruction? Legal Avenues and Obstacles for Prosecution of the Yazidi Genocide</td>
<td>Professor Rosemary Byrne</td>
</tr>
<tr>
<td>Seán McMahon</td>
<td>Engineering</td>
<td>The synthesis of electromechanical strain sensors based on graphene/polymer-mnano-composites: Measuring the cyclical deflection of bike frames for performance analysis</td>
<td>Professor Jonathan Coleman</td>
</tr>
<tr>
<td>Seán O’Neill McPartlin</td>
<td>Philosophy</td>
<td>The value of outcomes: the intersection of Population and Animal Ethics</td>
<td>Dr Kenneth Pearce</td>
</tr>
<tr>
<td>Stefan Nixon</td>
<td>Theoretical Physics</td>
<td>Luminous Supernovae across the Universe</td>
<td>Professor Jose Groh</td>
</tr>
<tr>
<td>Susan Yi Yang</td>
<td>Medicine</td>
<td>Parasites and pigs: Inflammatory and permeabilisation markers in blood brain barrier disruption</td>
<td>Professor Celia Holland</td>
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Research Project

Define a research question which ...

- Is feasible as a project over two 5 week periods in consecutive summers
- Is not part of your core, assessed curriculum
- You can develop and expand on over the course of the programme

Identify a Research Supervisor who will...

- Write a supporting statement confirming your project is feasible within the period and is of academic value
- Whose research interests are aligned with your project
- Be available to support you in refining and progressing your project throughout the period
- Will support you in any necessary ethics/lab safety requirements
Faculties / Schools
www.tcd.ie/research/structure/
How to define your research question

www.tcd.ie/research/themes/

Where to find an academic supervisor?

How to decide what research to do?
<table>
<thead>
<tr>
<th>Expert</th>
<th>Department</th>
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<tbody>
<tr>
<td>Professor Rose Anne Kenny</td>
<td>Centre For Medical Gerontology</td>
</tr>
<tr>
<td>Professor Mervyn Carron</td>
<td>School Of Nursing &amp; Midwifery</td>
</tr>
<tr>
<td>Professor Virgil Timonen</td>
<td>Sch Office - Social Work &amp; Social Policy</td>
</tr>
<tr>
<td>Professor Desmond O'Neill</td>
<td>Centre For Medical Gerontology</td>
</tr>
<tr>
<td>Dr. Aelita O'Halloran</td>
<td>Centre For Medical Gerontology</td>
</tr>
<tr>
<td>Dr. Sabina Brennan</td>
<td>Adapt</td>
</tr>
<tr>
<td>Dr. Claire Donnellan</td>
<td>School Of Nursing &amp; Midwifery</td>
</tr>
<tr>
<td>Dr. Eilish Burke</td>
<td>School Of Nursing &amp; Midwifery</td>
</tr>
<tr>
<td>Dr. Aileen Maria Lynch</td>
<td>School Of Nursing &amp; Midwifery</td>
</tr>
<tr>
<td>Dr. Hilary Cronin</td>
<td>Centre For Medical Gerontology</td>
</tr>
<tr>
<td>Dr. Patrick Moore</td>
<td>Centre For Medical Gerontology</td>
</tr>
<tr>
<td>Professor Fiona Newell</td>
<td>Psychology</td>
</tr>
<tr>
<td>Dr. Coimhín Mac Giolla Phadraig</td>
<td>Dental Science</td>
</tr>
<tr>
<td>Dr. Darren Mc Couland</td>
<td>School Of Nursing &amp; Midwifery</td>
</tr>
<tr>
<td>Professor Charles Normand</td>
<td>Public Health &amp; Primary Care</td>
</tr>
<tr>
<td>Ms. Joan P. Brannan</td>
<td>Occupational Therapy</td>
</tr>
<tr>
<td>Dr. Roman Romera-Lluna</td>
<td>Centre For Medical Gerontology</td>
</tr>
<tr>
<td>Dr. Gabrielle Mc Kee</td>
<td>School Of Nursing &amp; Midwifery</td>
</tr>
<tr>
<td>Professor Ian H. Robertson</td>
<td>Trinity Inst. Of Neurosciences (tcn)</td>
</tr>
</tbody>
</table>
Sources of information on current research projects

- Archive of Trinity news items is a great source of information about what research is going on and what the impact is:
  
  http://www.tcd.ie/Communications/news

- Research Support System profiles

- http://peoplefinder.tcd.ie/

- Policy on Good Research Practice (PDF)
## What funding is available?

### Funding Step-by-Step

- **€550 stipend provided per week for two 5 week research periods in consecutive summers**

- Scholars paid weekly via Trinity payroll (undergraduate student stipend)
  - Forms submitted to Student Employability Officer
  - **Exempt from tax**

- Travel grant applied for via email to Student Employability Officer – criteria will be made available on the website

- **Travel expenses once approved will be reimbursed on a receipts basis**

- Payments can only be made to Irish bank accounts and all Scholars must have PPS Number
How do you apply to be a Laidlaw Scholar?

➢ Go to www.tcd.ie/careers/ to submit an application before 1st February 2019

Prepare and submit the following:

1. Research project title
2. A short summary of the research question, objectives, and impact in simple terms that can be understood by a non-expert in the field
3. A statement of support from your project supervisor(s)
4. A statement on how you wish to develop as a leader (300 words max)
5. A statement on how you intend to develop academically and personally through research (300 words max)
Over 450 students participating in the programme internationally by 2020

Building a community of leaders who can contribute effectively in all parts of society

Become an international example of exceptional academic and leadership achievement

Create a wide-reaching and diverse network of international scholars
Contact Details

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+353 1 896 1227

www.tcd.ie/careers/laidlaw/
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