



**Trinity College Dublin**

Coláiste na Tríonóide, Baile Átha Cliath

The University of Dublin

## Post Specification

<b>Post Title:</b>	Research Assistant TB Immunology
<b>Post Status:</b>	2 year fixed term contract full-time
<b>Department/Faculty:</b>	TB Immunology, Department of Clinical Medicine, School of Medicine
<b>Location:</b>	Trinity Translational Medicine Institute, St. James's Hospital Campus
<b>Salary:</b>	Appointment will be made on the Research Assistant Point 4 to 7 as per IUA Research Salary Guidelines April 2017 depending on experience. <a href="http://www.iua.ie/research-innovation/researcher-salary-scales/">http://www.iua.ie/research-innovation/researcher-salary-scales/</a>
<b>Closing Date:</b>	<b>Friday 15<sup>th</sup> of September 2017</b>

## Post Summary

Tuberculosis now ranks alongside HIV as the world's most fatal infectious diseases. In addition, the WHO has declared that antibiotic resistance is now a world-wide threat to public health. In the TB Immunology lab, based in the Trinity Translational Medicine Institute at St James's hospital, we are uniquely poised to carry out bench-to-bedside research. Our group are focused on better understanding the cellular and molecular process that ensue in the host in response to exposure to Mycobacterium tuberculosis, the causative agent of TB. We will use this research to create new and innovative strategies aimed at boosting the host response and decreasing our reliance on antibiotics in the clinic. Furthermore, this research will help to improve vaccine strategies against TB. Further details of Prof. Joe Keane's research group can be found at <http://people.tcd.ie/josephmk>.

The appointee will work as part of a team of post-doctoral scientists and graduate students led by Professor Keane. Our group uses primary human cells and molecular biology techniques to study macrophage, dendritic cell and T cell responses to Mycobacterium tuberculosis infection. Techniques used include cell culture, ELISA, flow cytometry, transfection, RT-PCR, confocal microscopy, western blotting and High Content Analysis.

## Funding Information

This post is funded from the Royal City of Dublin Hospital Trust (RCDH) grant.

## Standard duties of the Post

The appointee will process blood and bronchial lavage samples and undertake laboratory experiments to support ongoing research. In addition, the appointee will support the day-to-day running of the lab by doing general lab and administrative duties such as ordering and



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maintaining health and safety records. The appointee will report to Dr Sharee Basdeo and Prof. Joe Keane.

### **Person Specification**

The appointed person will need to be enthusiastic and organised, willing to learn and will be able to work well both independently and as part of a team.

### **Qualifications**

BA/BSc in biological sciences or a relevant discipline.

### **Knowledge & Experience (Essential & Desirable)**

- Previous laboratory experience essential (can include undergraduate research project).
- Excellent data analysis skills (essential).
- Knowledge of immunology (desirable).
- Experience with cell culture and PBMC isolation from human blood (desirable).
- Proven record of clear scientific thinking and sound judgement.

### **Skills and Competencies**

- Excellent organisation skills
- Excellent communication skills; excellent level of English essential
- Excellent interpersonal skills.
- The candidate should be enthusiastic about translational clinical research.

### **Application Procedure**

Applicants should send a single PDF consisting of their CV, the names and contact details of 2 referees and a cover letter outlining their suitability for the post by email to **Dr. Sharee Basdeo**, email address [sbasdeo@tcd.ie](mailto:sbasdeo@tcd.ie). Please insert Research Assistant 2017 in the subject line of the email.

### **Further Information for Candidates**

URL Link to School	<a href="http://medicine.tcd.ie/">http://medicine.tcd.ie/</a>
URL Link to Research Group	<a href="https://www.medicine.tcd.ie/research/researchers/joe-keane.php">https://www.medicine.tcd.ie/research/researchers/joe-keane.php</a>



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## **Trinity College Dublin, the University of Dublin**

Founded in 1592, Trinity is at the nexus of tradition and innovation, offering undergraduate and postgraduate programmes across 24 schools and three faculties: arts, humanities, and social sciences; engineering, maths and science; and health sciences. Spread across 47 acres in Dublin's city centre, Trinity's 17,000-strong student body comes from all 32 counties of Ireland, and 16% of students come from outside the country. Of those, 40% are from outside the European Union, making Trinity's campus cosmopolitan and bustling, with a focus on diversity.

As Ireland's leading university, the pursuit of academic excellence through research and scholarship is at the heart of the Trinity education. Trinity is known for intellectual rigour, excellence, interdisciplinarity, and research-led teaching. Home to Nobel prize-winners such as scientist Ernest Walton and writer Samuel Beckett, Trinity draws visitors from across the world to its historic campus each year, including to the Book of Kells and Science Gallery which capture the university's connection to both old and new.

Trinity accounts for one-fifth of all spin-out companies from Irish higher education institutions, helping to turn Ireland into an innovation-intensive, high-productivity economy. That culture of innovation and entrepreneurship is a defining characteristic of our campus as we help shape the next generation of job creators.

Trinity has developed significant strength in a broad range of research areas, including the 19 broadly based multi-disciplinary thematic research areas.



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Ireland's first purpose-built nanoscience research institute, CRANN, houses 150 scientists, technicians and graduate students in specialised laboratory facilities. Meanwhile, the state-of-the-art Biomedical Sciences Institute is carrying out breakthrough research in areas such as immunology, cancer and medical devices.

The Old Library, which houses the Long Room in Trinity, is the largest research library in Ireland, with a collection of six million printed items, 500,000 maps, 80,000 electronic journals, and 350,000 electronic books. Some of the world's most famous scholars are graduates of Trinity, including writer Jonathan Swift, dramatist Oscar Wilde, philosopher George Berkeley, and political philosopher, and political theorist Edmund Burke. Three Trinity graduates have become Presidents of Ireland - Douglas Hyde, Mary Robinson and Mary McAleese.

### Trinity College Dublin World University Rankings

Trinity is the highest ranked university in Ireland, and among the world's leading higher education institutions.

#### Overall



## Trinity College Dublin

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- Trinity is Ireland's No.1 University in the QS World University Ranking, THE World University Ranking and the Academic Ranking of World Universities (Shanghai).
- Trinity is ranked 78<sup>th</sup> in the world and 27<sup>th</sup> in Europe in the 2015/2016 QS World University Ranking across all indicators.

### Internationalisation

- Trinity is ranked 35<sup>th</sup> in the world in terms of International Outlook in the Times Higher Education World University Ranking 2015/2016.

### Teaching Performance

- Trinity is ranked in the top 20% of universities in the world in terms of Teaching Performance in the Times Higher Education World University Ranking 2015/2016.

### Research Performance

- Trinity ranks in the top 1% of research institutions in the world in the following 17 Essential Science Indicators fields (an increase of over 150% from 2004): Physics, Chemistry, Engineering, Social Sciences (General), Immunology, Neurosciences, Nanosciences, Materials Science, Pharmacy and Toxicology, Molecular Biology and Genetics, Biology and Biochemistry, Microbiology, Plant and Animal Science, Clinical Medicine, Agriculture, Psychiatry/Psychology, Environment/Ecology.

### In the QS Faculty Rankings 2015\*:

- Trinity is ranked 61<sup>st</sup> in the world in Arts and Humanities.

### In the QS Subject Rankings 2015\*\*:

Trinity College Dublin features in the world's elite (Top 200) institutions in 25 of the 28 subjects in which it was evaluated by the QS World University Rankings by Subject 2015. Of these, Trinity ranks in the top 100 in the world in 14 subjects and in the top 5 in the world in 5 subjects.

#### Top 50

- Trinity is ranked 32<sup>nd</sup> in the world in English Language and Literature.
- Trinity is ranked 33<sup>rd</sup> in the world in Politics and International Studies.
- Trinity is ranked 39<sup>th</sup> in the world in History.
- Trinity is ranked 48<sup>th</sup> in the world in Biological Sciences.
- Trinity is ranked 49<sup>th</sup> in the world in Modern Languages.

#### Top 100

- Trinity is in the top 100 in the world in Chemistry.
- Trinity is in the top 100 in the world in Computer Science and Information Systems.
- Trinity is in the top 100 in the world in Education.
- Trinity is in the top 100 in the world in Geography.



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- Trinity is in the top 100 in the world in Law.
- Trinity is in the top 100 in the world in Medicine.
- Trinity is in the top 100 in the world in Pharmacy and Pharmacology.
- Trinity is in the top 100 in the world in Philosophy.
- Trinity is in the top 100 in the world in Psychology.

### **Trinity subjects ranked in the world top 101-200 (QS Subject Ranking 2015)**

Subject	Trinity Rank
Accounting and Finance	101-150
Business and Management Studies	101-150
Economics and Econometrics	101-150
Linguistics	101-150
Physics and Astronomy	101-150
Sociology	101-150
Engineering - Civil and Structural	151-200
Engineering – Electrical	151-200
Engineering – Mechanical	151-200
Environmental Sciences	151-200
Mathematics	151-200

\* QS 'Faculty' Rankings 2015: [www.topuniversities.com/faculty-rankings](http://www.topuniversities.com/faculty-rankings)

\*\* QS Subject Rankings 2015: [www.topuniversities.com/subject-rankings](http://www.topuniversities.com/subject-rankings)

### **Equal Opportunities Policy**

Trinity College is an equal opportunities employer and is committed to employment policies, procedures and practices which do not discriminate on grounds such as gender, civil status, family status, age, disability, race, religious belief, sexual orientation or membership of the travelling community.

On that basis we encourage and welcome talented people from all backgrounds to join our staff community.

Trinity College's Diversity Statement can be viewed in full at <https://www.tcd.ie/diversity-inclusion/diversity-statement>

### **Pension Entitlements**

This is a pensionable position and the provisions of the Public Service Superannuation (Miscellaneous Provisions) Act 2004 will apply in relation to retirement age for pension purposes. Details of the relevant Pension Scheme will be provided to the successful applicant.



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Applicants should note that they will be required to complete a Pre-Employment Declaration to confirm whether or not they have previously availed of an Irish Public Service Scheme of incentivised early retirement or enhanced redundancy payment. Applicants will also be required to declare any entitlements to a Public Service pension benefit (in payment or preserved) from any other Irish Public Service employment.

Applicants formerly employed by the Irish Public Service that may previously have availed of an Irish Public Service Scheme of Incentivised early retirement or enhanced redundancy payment should ensure that they are not precluded from re-engagement in the Irish Public Service under the terms of such Schemes. Such queries should be directed to an applicant's former Irish Public Service Employer in the first instance.

### **Application Procedure**

Applicants should send a single PDF consisting of their CV, the names and contact details of 2 referees and a cover letter outlining their suitability for the post by email to:

Name: **Dr. Sharee Basdeo**  
Email Address: [sbasdeo@tcd.ie](mailto:sbasdeo@tcd.ie)  
Subject line of email: Please insert Research Assistant 2017 in the subject line

**TRINITY COLLEGE DUBLIN, THE UNIVERSITY OF DUBLIN IS AN EQUAL OPPORTUNITIES EMPLOYER AND WE ENCOURAGE AND WELCOME APPLICATIONS FROM TALENTED PEOPLE FROM ALL BACKGROUNDS.**