Post Specification

Post Title: B.M. Thapar Chair, Professor of Computer Science

Research Area: Computer Animation

Post Status: Permanent, full-time

School: School of Computer Science and Statistics
Faculty of Engineering, Mathematics and Science

Location: Trinity College Dublin, The University of Dublin
College Green, Dublin 2, Ireland

Reports To: Head of the School of Computer Science and Statistics

Salary: Appointment is expected to be made on the Professor salary scale (€114,740 to €140,961 per annum) at a point in line with Irish Government Pay Policy

Closing Date: 12 Noon (GMT), Wednesday 12th December 2018

This position is tenable from 1st January 2019.

The successful candidate will be expected to take up the post by 1st January 2019 or as soon as possible thereafter.

Please note that Garda (Police) vetting will be sought in respect of the successful candidate for the post.
Summary of the Post

Trinity College Dublin (TCD), Ireland and Thapar University (TU), India are engaged in a major multi-level inter-university collaboration encompassing teaching development and joint research. As part of this programme the University of Dublin, Trinity College, invites applications for the position of B.M. Thapar Chair, Professor of Computer Science. The post holder will:

1. Provide leadership in the development of a vibrant research programme at both TCD and TU. While reporting directly to the Head of Computer Science and Statistics in TCD, the post holder will also report to the Director of TU with respect to TU’s research strategy, research infrastructure, staffing policies relating to research, mentoring of academic and post-doctoral staff and training of PhD students. It is intended that administrative duties will not form a primary part of this role.

2. Establish a high profile, internationally leading inter-institutional research programme in Computer Animation, which will both complement existing strengths in this area in TCD and seed the development of research excellence in the broad area of “Animation and Gaming” in TU. It is expected that the post holder will leverage the existing expertise and track record of TCD’s internationally renowned Graphics and Vision discipline and the expansion of academic staff and research laboratories in the Department of Computer Science and Engineering at TU, located in the new 12,000m² iconic Computer Science building.

3. Strengthen TU’s links with Indian industry to increase application-driven funded research. The chair holder will explore new links, particularly those with potential for international initiatives leading to substantial European and Indian funding in collaboration with TCD and other international partners.

4. While employed by TCD, spend at least 30% of their time annually at TU. This will be implemented by the parallel establishment of a seven-year visiting professorship at TU.

It is essential that the successful candidate is an internationally recognized scholar, with an excellent publication profile, record of collaboration with industry, raising research funding, mentoring of academic staff and post-doctoral researchers, and supervision of research students.
Role of the Chair

The B. M. Thapar Chair will be a senior member of both Universities and is expected to demonstrate inspirational leadership and excellence in research and teaching.

The Chair is expected take a leading role in developing research strategy at both Universities, creating a vibrant research infrastructure and establishing a joint TCD/Thapar research initiative in “Animation and Gaming”.

The B. M. Thapar Chair will be expected to (1) establish a stimulating and supportive work environment that attracts high calibre researchers and encourages their contribution to scholarship, (2) strengthen links among and between researchers in both Universities and with external organizations, and (3) engage in research initiatives at a national and international level that will make an impact in Ireland, India and beyond.

Duties of the Post

The Chair will undertake the following duties at both Universities:

- Provide research leadership.
- Engage in individual and collaborative research and actively seek research funding.
- Play a leadership role in the development of a joint “Animation and Gaming” research initiative.
- Supervise postgraduate and undergraduate student projects.
- Contribute to the undergraduate and postgraduate teaching programmes and ensure the delivery of research-led teaching.
Person Specification

The successful candidate will be able to clearly demonstrate the following:

- The vision and leadership skills necessary to develop the research strategy at both Universities.
- An outstanding research record including evidence of sustained publication in high-impact international journals and the leading conferences in research in the area of Computer Animation.
- The ability to build and maintain an internationally leading research group.
- Evidence of having delivered leadership to the research community through publication, membership of international societies, committees and editorial boards and through reviewing and refereeing activities.
- A strong track record of collaboration with industry.
- The ability to raise significant research funding from a variety of sources.
- Excellence in teaching at undergraduate and postgraduate level.
- Excellence in the supervision of undergraduate, masters and doctoral dissertations.
- Excellent interpersonal skills and an ability to present and communicate ideas and concepts clearly.
- Enthusiasm for engagement with wider strategic initiatives at both Universities.

Qualifications and Experience:

Candidates must have a PhD in Computer Science or in a relevant research area. The successful candidate will have international work experience and a sustained record of published research output on the topic of Computer Animation, especially in high impact international journals. Candidates will also have demonstrable ability in a research leadership role and a record of high achievement in teaching, supervision, administration and engagement with the community.
Further Information for Candidates

Interested applicants may contact the following person by e-mail, in the first instance, with informal enquiries:

Professor Carol O’Sullivan, Head of School of Computer Science and Statistics, Trinity College Dublin
headscss@scss.tcd.ie

Applications will only be accepted through e-recruitment (https://jobs.tcd.ie)
Applicants must provide the following information in applying for this position:

- cover letter;
- comprehensive curriculum vitae including full data on publications;
- name and contact details (i.e. address, email etc.) of three referees;
- statement on their vision for the future development of Computer Animation in Trinity College and Thapar University - maximum 2 pages;
- research plan (summarising research accomplishments to date, and the research the candidate plans to conduct in the next five years, along with plans for securing competitive research funding) – maximum 2 pages.

Please Note

- Applicants who do not address the application requirements above will not be considered at the short list stage.
- Applicants should note that the interview process for this appointment may include the delivery of a presentation.
- If you have a query regarding e-recruitment, please contact:
  Ms Lisa Hynes, Recruitment Partner, Human Resources, LIHYNES@tcd.ie

<table>
<thead>
<tr>
<th>URL Link to Graphics and Vision group</th>
<th><a href="http://gv2.scss.tcd.ie">http://gv2.scss.tcd.ie</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>URL Link to School of Computer Science and Statistics</td>
<td><a href="https://www.scss.tcd.ie">https://www.scss.tcd.ie</a></td>
</tr>
<tr>
<td>URL Link to Trinity College</td>
<td><a href="https://www.tcd.ie">https://www.tcd.ie</a></td>
</tr>
<tr>
<td>URL Link to Thapar University</td>
<td><a href="http://www.thapar.edu">http://www.thapar.edu</a></td>
</tr>
<tr>
<td>URL Link to Human Resources</td>
<td><a href="https://www.tcd.ie/hr/">https://www.tcd.ie/hr/</a></td>
</tr>
</tbody>
</table>
School of Computer Science and Statistics, Trinity College Dublin

The School of Computer Science and Statistics (SCSS) comprises the five academic disciplines of Artificial Intelligence, Network and Distributed Systems, Graphics and Vision, Software and Systems, and Statistics and Information Systems. The School was established in July 2005 from the merger of two long-established departments: Computer Science and Statistics. Synergies in areas such as digital content, telecommunications, computer vision and ubiquitous computing, combined with cutting edge statistical learning research has provided a unique environment in which today members of SCSS exploit the emergence of data and its analysis as a driver in many fields of computer science and statistics.

Comprising 65 academics and over 100 research staff, the School is internationally recognized for the quality of its research and teaching and is ranked in the top 100 Computer Science Schools worldwide (QS subject rankings 2018) as well as the highest ranked in Ireland. The School hosts two Science Foundation Ireland (SFI) Research Centres: ADAPT and CONNECT, leads the ENABLE SFI research spoke on Internet of Things, and is a partner in a further two: Lero and Insight. Also, four of TCD’s multidisciplinary research themes, namely Creative Technologies, Digital Humanities, Digital Engagement, and Smart Sustainable Cities are led by members of SCSS. The School currently coordinates six European Commission projects and is partner in a further seven.

The School signed research contracts in excess of €50 million over the last three years from a range of national and international agencies such as Science Foundation Ireland (SFI), Enterprise Ireland as well as the European Commission’s Seventh and Horizon 2020 Framework Programmes.

The School offers a wide range of undergraduate and postgraduate degree programmes on which over 1200 students are registered. In addition, the School offers opportunities for higher degrees by research and there are currently over 130 registered PhD students in the School.

Trinity is embarking on an ambitious integrated project to expand education and research activities across the Schools of Engineering, Natural Sciences, and Computer Science and Statistics. Recognizing the importance for humanity in addressing the challenge of sustainable technological development, the expansion of the three Schools is being executed as a single strategic activity called the E3 initiative.

For further details, please see the School’s website at www.scss.tcd.ie
Discipline of Graphics and Vision

The Graphics and Vision (GV) discipline at Trinity College Dublin (TCD) is internationally renowned for its innovative research in visual computing, including computer graphics, computer vision, computer animation, human perception, and augmented and virtual reality. The discipline currently has 11 academic staff members and more than 40 full-time researchers (post-graduate and post-doctoral).

The discipline has been very successful in attracting funding from national funding agencies (SFI & EI) as well as EU FP7 and H2020 projects, e.g., EU FP7 projects VERVE and GRAISearch and H2020 projects POPULATE and SAUCE. Members have been successful in establishing industry companies such as Havok, Haptica, SureWash and Volograms. The discipline recently attracted a Science Foundation Ireland (SFI) Research Professor of Creative Technologies with funding to establish the V-SENSE project (v-sense.scss.tcd.ie). GV members play a leading role in Trinity’s “Creative Technologies” strategic research theme.

The discipline has an excellent track record in Computer Animation, publishing regularly in the top journals such as ACM Transactions on Computer Graphics (TOG), ACM Transactions on Applied Perception (TAP), IEEE Transactions on Visualization and Computer Graphics (TVCG), and the top conferences in the field including the ACM SIGGRAPH conferences, the ACM SIGGRAPH Symposia on Computer Animation (SCA), Interactive 3D Graphics (I3D) and others.

For further information, please visit the GV website gv2.scss.tcd.ie.
Thapar University, Patiala (India)

Thapar University (TU), located on a 250 acre green campus in the historic city of Patiala, is one of India’s finest institutions. TU’s success, backed by one of India’s most diversified conglomerates, the Avantha group, lies in cutting-edge research, enviable infrastructure and smart institute-industry linkages. Its campus is home to over 100 teaching and research laboratories in engineering and science, with most students residing on campus in fully equipped hostels. Investment in a new Learning Centre incorporating a Green Library, Computer Science Block and Lecture Hall complex, will further enhance the campus.

Thapar University strives to maintain an environment that encourages scholarly inquiry and research, a spirit of creative independence and a deep commitment to academic excellence. The diverse programmes and activities aimed at developing quality of mind, ethical standard, social awareness and global perspectives, let the students shape their own TU experience and growth. Alumni are well known across the globe for their excellent contributions to society in varied fields such as business and industry, administrative and regulatory services, research and education and social and human rights organisations. Cutting-edge research is at the heart of the University, which believes that original research has to be the backbone of engineering education, and over 3800 research papers in peer-reviewed journals have been published.

The University offers academic programmes at the undergraduate level leading to BE/BTech degree and 2+2 credit transfer programme (International Engineering Programme) in collaboration with Trinity. At the postgraduate level, the University offers programmes leading to MCA, MSc, MBA, ME/M.Tech, MPhil degrees and at the doctoral level, PhD and DSc degrees. The salient features of the programmes are semester-wise credit system letter grades, continuous evaluation of the students’ performance, course-wise promotion and the flexibility to allow the students to select courses and move at an optimum pace suited to their ability, capacity and interest. TU has forged strong linkages with industry to impart a practical dimension to technical training. Over 180 companies including some of the leading corporations provide Industry placements.

TU is ranked as an ‘A’ grade University by National Assessment and Accreditation Council (NAAC) India. This is the best ranking possible for any Indian Institution imparting higher education. Most of the B.E. programmes of the University are accredited by the National Board of Accreditation (NBA) India. The B.E. programme in Mechanical Engineering is accredited by ABET, USA from September 2016 for a period of six years. Two other UG programmes in Civil and Electronics received a visit from ABET in November 2016 and are also expected to be accredited.
Trinity College Dublin, the University of Dublin

Trinity is Ireland’s premier university, with a proud tradition of excellence stretching back to its foundation in 1592. The oldest university in Ireland, and one of the oldest in Europe, today Trinity sits at the intersection of the past and the future, and is ideally positioned as a major university in the European Union. Our 47-acre campus is located in the heart of Dublin city centre and is home to historic buildings dating from the University’s establishment, as well as some of the most cutting-edge teaching and research facilities in Ireland. Students at Trinity benefit from a unique educational experience across a range of disciplines in our three faculties – Arts, Humanities, and Social Sciences; Engineering, Mathematics and Science; and Health Sciences. The pursuit of excellence through research and scholarship is at the heart of a Trinity education, and our researchers have an outstanding publication record and strong record of grant success.

Trinity has developed 18 broad-based multidisciplinary research themes that cut across disciplines and facilitate world-leading research and collaboration within the University and with colleagues around the world. These internationally recognised themes include such diverse areas as Cancer, Immunology, Telecoms, Nanoscience, Neuroscience, and Creative Technologies. Researchers from across the University work together in innovative ways to develop new and exciting approaches to their research and explore the frontiers of knowledge in the 21st century. In creating these dedicated research themes, Trinity’s researchers are able to become a more powerful force on the global stage, successfully competing for large-scale grants and attracting top students and faculty to the University.

Trinity attracts top students from Ireland and abroad and prides itself on the consistently high standard of student admitted to the University every year. These students are drawn to Trinity for the excellence of our research-led teaching and for the quality and prestige a degree from this University confers. Trinity has also pioneered accessibility to education in Ireland, becoming the first university in the country to reserve 15% of its undergraduate places for students from non-traditional learning groups. Trinity is the top-ranked European university for student entrepreneurship and Europe’s only representative in the world’s top-50 universities.

Our alumni have gone on to shape the history of Ireland and of Western Europe in a wide range of fields. These include such notable figures as Jonathan Swift, Oscar Wilde, William Rowan Hamilton, Edmund Burke, William Stokes, Denis Burkitt, Louise Richardson, Lenny Abrahamson, and Anne Enright. Three of Trinity’s graduates have been awarded Nobel prizes: Ernest Walton for Physics in 1951; Samuel Beckett for Literature in 1968; and William Campbell for Physiology / Medicine in 2015. Trinity also counts the first female President of Ireland among its alumni in Mary Robinson, as well as other notable former Presidents Douglas Hyde and Mary McAleese. At Trinity, we are justifiably proud of our tradition, and we strive to uphold this excellence as we face the demands of the 21st century.
Ranking Facts

- Trinity College Dublin is Ireland’s No.1 University (QS World University Ranking 2019 Academic Ranking of World Universities (Shanghai), 2019) and is ranked 104th in the World (QS World University Ranking, 2018/19)
- Trinity is ranked 41st in the World in terms of International Outlook (Times Higher Education World University Ranking, 2016)
- Trinity is ranked in the top 50 Universities in the world in four subjects: Nursing, English, Classics, and Politics and International Studies, and in the top 100 in a further 16 subjects: Computer Science, History, Languages, Philosophy, Theology, Biology, Medicine, Pharmacy, Chemistry, Geography, Materials Science, Education, Law, Social Policy, Sociology, and Sport (QS Subject Rankings 2018)
Research Themes

Ageing

Cancer

Creative Arts Practice

Creative Technologies

Digital Engagement

Digital Humanities

Genes & Society

Identities in Transformation

Immunology, Inflammation & Infection

International Development

International Integration

Making Ireland

Manuscript, Book and Print Cultures

Nanoscience

Neuroscience

Telecommunications

Smart Sustainable Planet

Next Generation Medical Devices
The Selection Process in Trinity

The Selection Committee (Interview Panel) may include members of the Academic and Administrative community together with External Assessors who are expert in the area.

Applications will be acknowledged by email. If you do not receive confirmation of receipt within 1 day of submitting your application online, please contact the named Recruitment Partner immediately and prior to the closing date/time.

Given the degree of co-ordination and planning to have a Selection Committee available on the specified date, Trinity College Dublin regrets that it may not be in a position to offer alternate selection dates. Where applicants are unavailable, reserves may be drawn from a shortlist. Outcomes of interviews are notified in writing to applicants and are issued no later than 5 working days following the selection day.

In some instances, the Selection Committee may avail of telephone or video conferencing. Trinity College Dublin’s selection methods may consist of any or all of the following: Interviews, Presentations, Psychometric Testing, References and Situational Exercises.

It is the policy of the University to conduct pre-employment medical screening/full pre-employment medicals. Information supplied by applicants in their application (Cover Letter, CV, statements etc.) will be used to shortlist for interview.

Applications from non-EEA citizens are welcomed.


- Non-EEA applicants should note that the onus is on them to secure a visa to travel to Ireland prior to interview.
- Non-EEA applicants should also be aware that even if successful at interview, an appointment to the post is contingent on the securing of an employment permit.

Equal Opportunities Policy

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

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.
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.

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.

GARDA Clearance

Garda (Police) vetting will be sought in respect of the successful candidate for the post. PLEASE NOTE: The successful candidate will be required to complete and return a Garda vetting form. This form will be forwarded to An Garda Síochána (Irish Police) for security checks on all Irish addresses at which they have resided. An Garda Síochána will make enquiries with the Police Service of Northern Ireland with respect to addresses in Northern Ireland. If an applicant is not successful in obtaining the post for whatever reason, this information will be destroyed. If an applicant, therefore, subsequently comes under consideration for another position, they will be required to supply this information again.

While applicants must complete information in relation to all addresses at which they have resided, the vetting is only done on addresses on the island of Ireland. If an applicant has resided / studied in countries outside of Ireland for a period of 6 months or more, it is mandatory for them to furnish a Police Criminal Records Check/ Police Certificate from those countries stating that they have no convictions recorded against them while residing there. Applicants will need to provide a separate Police Criminal Records Check/ Police Certificate for each country in which they have resided. The Police Criminal Records Check/ Police Certificate must be dated after the date the applicant left the relevant country. Applicants should provide documentation in the English and/or Irish language. Translations must be provided by a registered translation company/institute in the Republic of Ireland; all costs will be borne by the applicant. Only original version documents will be accepted.

It is the responsibility of the applicant to seek security clearances in a timely fashion as they can take some time. **No applicant will be appointed without this information being provided and being in order.** The following websites may be of assistance in this regard: [www.disclosurescotland.co.uk](http://www.disclosurescotland.co.uk) and [www.psni.police.uk](http://www.psni.police.uk)

This website provides information on obtaining a national police clearance certificate for Australia [www.afp.gov.au](http://www.afp.gov.au)

This website provides information on obtaining police clearance in New Zealand: [www.courts.govt.nz](http://www.courts.govt.nz)

For other countries not listed above applicants may find it helpful to contact the relevant embassies who could provide information on seeking Police Clearance. Original Police Clearance documentation should be forwarded to Human Resources where it will be copied and the original returned to the applicant by post. **Any cost incurred in this process will be borne by the Applicant.**