



**Job Title:** Research Associate – TOTeM project  
**Reference No:** CASA/09/06/TOTEM2  
**Department:** UCL Centre for Advanced Spatial Analysis  
**Reports to:** Dr Andrew Hudson-Smith  
**Grade:** 7 [Starting salary: £28,839 plus London Allowance of £2,781]  
**Funding duration:** 2 years  
**Closing date:** Tuesday 7<sup>th</sup> July 2009  
**Interviews:** w/c 27<sup>th</sup> July 2009 TBC

### **TOTeM: Tales of Things, Electronic Memory**

The principle aim of the research project is to provide a platform to allow memories to be attached to objects that already exist in the world. The project identifies a significant gap in the emerging aspect of the digital economy known as the 'internet of things', which as new objects are tagged there is a real danger that old ones will not be.

The TOTeM project is concerned with the memory and value of 'old' objects. It has been suggested that people surround themselves with between 1,000 and 5,000 objects. Of those thousands of objects many of them are probably not truly cared for and end up in rubbish bins or in storage. But for every owner, in almost every household there are a selection of objects that hold significant resonance, and will already connect them to an Internet of memory and meaning. An intrinsic human trait is the process of imbuing meaning onto objects so that they provide connections to people, events and environments. Artefacts across a mantelpiece become conduits between events that happened in the past, to people who will occupy the future. These objects become essential coordinates across families and communities to support the telling of a stories and passing-on knowledge.

### **About the role**

TOTeM is a collaborative project lead by Edinburgh College of Art. UCL is a partner in this project, along with the University of Salford, Brunel University and the University of Dundee. Each institution is responsible for different elements of the project, CASA's role at UCL is to implement server side and tagging technologies within a Web 2.0 environment.

### **How to Apply**

To be considered for this position, please submit the following documents by the closing date:

1. a letter of application outlining your suitability to this post and your reasons for applying.
2. a CV listing education history (institution name, start and end dates of courses, qualification gained), details of membership of any professional organisations, details of current or most recent employer (name and address of current organisation, job title, salary and duties), details of previous employment and how your knowledge, skills, and abilities meet the job requirements, plus the names and addresses of two referees one of whom should be your most recent employer.
3. if relevant and possible, a sample of your work, in the form of papers, or related material which indicates your expertise and previous projects.
4. in addition, UCL requires applicants applying with a CV to provide standardised monitoring information; please complete and return the last 3 pages of this document.

Please email [s.curtis@ucl.ac.uk](mailto:s.curtis@ucl.ac.uk) clearly stating the post reference number in the subject line.

## About CASA

The Centre for Advanced Spatial Analysis (CASA) is an initiative within University College London to develop emerging computer technologies in several disciplines which deal with geography, space, location, and the built environment. As an interdisciplinary research centre expertise is drawn from archaeology, architecture, cartography, computer science, environmental science, geography, planning, remote sensing, geomatic engineering, and transport studies. This generates a unique blend of personnel who operate from CASA and associated departments within UCL. CASA is a department within the Faculty of the Built Environment.

For more information about CASA, please visit <http://www.casa.ucl.ac.uk>

## Salary

The post is graded as Grade 7, the salary for which starts from £28,839 (excluding London Allowance of £2,781).

## Probation

Appointments are subject to receipt of satisfactory references and a probationary period of 9 months.

## Hours of work

This position is office-based and full time hours for research staff average 36½ hours per week.

## Holidays

Annual leave is 27 working days per annum (pro-rata) for a full time member of staff.

UCL also closes for a period at Christmas and Easter, at which times staff benefit from a total of 6 'closure days' in addition to Bank Holidays.

## Pension

The postholder will be eligible to join the Universities Superannuation Scheme, which is a final salary scheme with a current employee contribution rate of 6.35% and an employer contribution rate of 14% of salary.

## Season ticket loans

A season ticket loan is available to staff who have successfully completed their probationary period with the facility to repay through a monthly deduction from salary.

## Other benefits

Other benefits of joining UCL as a staff member are many and include:

- Access to an extensive range of in-house staff development opportunities. Staff have full use of the UCL libraries and UCL operates a Study Assistance Scheme for those undertaking part-time work-related study.
- An excellent location for transport networks being near Euston, Kings Cross and St. Pancras stations and a choice of underground stations connected to London's other mainline stations. A wide range of bus routes serves the area.
- UCL lies in Bloomsbury, just north of Oxford Street, Covent Garden and the heart of the West End with access to shops, theatres, cinemas, bars and restaurants. UCL also has its own 550 seat West End arts venue (Bloomsbury Theatre) which hosts drama, dance, music, debates and lectures during the year
- The main campus has subsidised cafeterias/bars and shops, gym, hairdresser and a travel agent. UCL staff can also benefit from corporate membership at a Tottenham Court Road gym.

**Research Associate – TOTeM project**  
(Ref CASA/09/06/TOTEM2)

**Job description**

1. Principally the candidate will be responsible for developing techniques and methods to share and tag data via RFID and associated technologies within a Web 2.0 environment.
2. Develop the website in association with the other parties involved in TOTeM.
3. To prepare progress reports on research for funding bodies as required.
4. To contribute to the drafting and submitting of papers to appropriate peer reviewed journals.
5. To comply with the appropriate confidentiality terms regarding the disclosure of project results to third parties.
6. To participate in TOTeM meetings and fulfil the project's reporting requirements, which may involve UK travel and overnight stays.
7. To prepare and present findings of research activity to colleagues and at scientific meetings.
8. To contribute to the overall activities of the research team/project collaborators and department as required.
9. To contribute to the induction and direction of other research staff and students if so requested by the Principal Investigator.
10. To carry out any other duties as are within the scope, spirit and purpose of the job as requested by the Principal Investigator.
11. At all times to follow Departmental and UCL policies including Equal Opportunities, Race Equality, Fire, Security and Health and Safety etc.

## Person specification

<b>TECHNICAL SKILLS</b>	Essential	Desirable
1. Background in RFID or Related Technologies		✓
2. Background in computer science, human-computer interaction, interaction design or similar disciplines		✓
3. Some experience in electronics and mobile platforms would be advantageous.		✓
4. Ability to build complex web 2.0 applications from scratch	✓	
5. Knowledge & programming experience in <i>at least one</i> the following programming languages: <ul style="list-style-type: none"> <li>• Python</li> <li>• C# .Net</li> <li>• Java</li> <li>• Cocoa</li> </ul>	✓	
<b>Server Technologies</b> <ul style="list-style-type: none"> <li>• ASP .Net &amp; IIS</li> <li>• Apache, Tomcat</li> </ul>	✓ ✓	
<b>Client Side Web Applications</b> Knowledge & programming experience in <i>at least two of</i> the following programming languages: <ul style="list-style-type: none"> <li>• Javascript, HTML, AJAX, XML, XSLT, XPath, Rich Internet Applications, Web 2.0</li> </ul>	✓	
<b>Databases</b> <ul style="list-style-type: none"> <li>• SQL Server 2008 or Oracle Spatial</li> </ul>		✓
<b>GIS</b> <ul style="list-style-type: none"> <li>• Knowledge of Geographical Information Systems e.g. ArcGIS, MapInfo</li> </ul>		✓
<b>Web Mapping</b> <ul style="list-style-type: none"> <li>• Google Maps API or Microsoft Virtual Earth SDK or OpenLayers API, Google Earth, KML</li> </ul>		✓
<b>GENERIC SKILLS</b>		
4. A reliable, motivated and organised person, able to manage a varied workload whilst still being able to meet strict deadlines and displaying evidence of the ability to complete tasks and projects to a high standard with a minimum of supervision.	✓	
5. A mature and confident disposition with the ability to present complex topics to a variety of audiences, and to produce and deliver dynamic presentations with ease and speed.		✓
6. Good verbal communication skills and the ability to work well as part of a team.	✓	
7. A positive and flexible attitude with a willingness to take on new areas of application and to contribute on an equal footing to the development of the research		✓

## APPENDIX I: Information to be provided by CV applicants

To be completed by all those submitting a CV in application for a post with University College London. Our equal opportunities policy includes the provision that in recruitment, the only consideration must be that the individual meets or is likely to meet the genuine requirements of the job. No one will be discriminated against on the basis of sex, age, race, colour, ethnic origin, physical disability, marital status, sexual orientation, caring or parental responsibilities, or belief on any matters including religion and politics.

Please complete this form in black ink/biro or by typing or an audio cassette.

<u>Application for the Position of:</u> <b>Research Associate – TOTeM project</b>	<u>Department:</u> <b>CASA</b>
<u>Ref No or Job Code:</u> <b>Ref CASA/09/06/TOTEM2</b>	

<u>Surname:</u>	<u>First Name:</u>	<u>Title:</u>
	<u>Preferred Forename (if different):</u>	
<u>Address:</u>	<u>Contact details:</u> <b>work:</b> <b>home:</b> <b>email:</b>	

<b>Are you 64 or over?</b> It is UCL policy that staff normally retire on the 31 <sup>st</sup> July following their 65 <sup>th</sup> birthday. In line with this UCL will not normally employ someone who is within six months of that date. (see <a href="http://www.ucl.ac.uk/hr/docs/retirement.php">http://www.ucl.ac.uk/hr/docs/retirement.php</a> for more information)	Yes/No
<b>Do you require permission / a Certificate of Sponsorship to take up employment in the UK?</b> (Immigration Asylum and Nationality Act 2006 and UK Border Agency Immigration rules – see Border Agency website <a href="http://www.ukba.homeoffice.gov.uk/workingintheuk/tier2/">http://www.ukba.homeoffice.gov.uk/workingintheuk/tier2/</a> )	Yes/No
<b>Do you need to register under the Home Office EU Accession State Worker Registration Scheme?</b> (See <a href="http://www.ukba.homeoffice.gov.uk/workingintheuk/eea/wrs/">http://www.ukba.homeoffice.gov.uk/workingintheuk/eea/wrs/</a> for more information) Are you a Bulgarian or Romanian National? (See <a href="http://www.ukba.homeoffice.gov.uk/workingintheuk/eea/bulgariaromania/">http://www.ukba.homeoffice.gov.uk/workingintheuk/eea/bulgariaromania/</a> for more information)	Yes/No
<b>Have you any unspent criminal convictions in line with the Rehabilitation of Offenders Act 1974?</b> <b>If so, please specify below or on a separate sheet.</b> Appointment to certain posts, as stated in the advertisement and job pack, is subject to a criminal record check. By signing the Declaration you accept that the organisation will seek information from the Criminal Records Bureau and any associated special lists, where we have stated it is necessary to do so.	Yes/No
<b>Do you have a Personal Relationship with any member of staff or student at UCL?</b> If so, please give details: See <a href="http://www.ucl.ac.uk/hr/docs/personal_relationships.php">http://www.ucl.ac.uk/hr/docs/personal_relationships.php</a> for more details	Yes/No
<b>If employed, how many days sick leave have you had in the last 24 months?</b>	
<b>Where did you see this vacancy advertised?</b>	
<b>Current or former UCL staff/students please enter your UPI number if known:</b>	

To the best of my knowledge the answers given to the questions contained in this application and all statements made are true and accurate. Any falsification may be considered sufficient cause for rejection or, if employed, dismissal.

Signature of Applicant.....Date.....

## REHABILITATION OF OFFENDERS ACT 1974

The Rehabilitation of Offenders Act 1974 is intended to ensure that a person convicted of a criminal offence (whether in Great Britain or abroad), not involving a sentence of more than 2.5 years' imprisonment who has not since re-offended for a specified period of time (a rehabilitation period) related to the severity of their sentence is treated as if the offence, conviction and sentence had never occurred.

Sentences of more than 2.5 years put an individual concerned outside the scope of the Act. Such convictions can never therefore become spent.

(Exceptions) (Amendment) order 1986

Exempted professions NOT covered by The Rehabilitation of Offenders Act 1974 are:-

- Medical practitioner
- Nurse, midwife;
- Barrister (in England and Wales), advocate (in Scotland), solicitor;
- Ophthalmic optician, dispensing optician;
- Chartered accountant, certified accountant;
- Pharmaceutical chemist;
- Dentist, dental hygienist, dental auxiliary;
- Registered teacher (in Scotland);
- Veterinary surgeon;
- Any profession to which the Professions Supplementary to Medicine Act 1960 applies and which is undertaken following registration under the Act

**CONFIDENTIAL  
EQUAL OPPORTUNITIES CLASSIFICATION FORM**

University College London has a commitment to ensuring that staff are appointed, and promoted on the basis of merit, regardless of ethnic origin, sex or disability, sexual orientation, race, colour, nationality (within current legislation), marital status, caring or parental responsibilities, age, or beliefs on matters such as religion and politics.

Monitoring enables us to see what is happening in practice, to assess the impact of our equal opportunities policy and its implementation, to set any targets for improvements, and measure progress. To enable us to do this, and to make the exercise successful, we rely on the following details.

On receipt, this form will be separated from your application form/CV. The information provided will be treated in the strictest confidence and will only be used for the purposes of monitoring. **Thank you for your co-operation.**

<b>Name</b>	<b>Job Title/Ref. N° Ref CASA/09/06/TOTEM2</b>
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**Please complete all 5 sections:**

<p><b>1. Ethnic Group</b></p> <p><b>A White</b></p> <p><input type="checkbox"/> British</p> <p><input type="checkbox"/> Irish</p> <p><input type="checkbox"/> Any other White background</p> <p><b>B Mixed Race</b></p> <p><input type="checkbox"/> White and Black Caribbean</p> <p><input type="checkbox"/> White and Black African</p> <p><input type="checkbox"/> White and Asian</p> <p><input type="checkbox"/> Any other Mixed Race background</p> <p><b>C Asian or Asian British</b></p> <p><input type="checkbox"/> Indian</p> <p><input type="checkbox"/> Pakistani</p> <p><input type="checkbox"/> Bangladeshi</p> <p><input type="checkbox"/> Any other Asian background</p> <p><b>D Black or Black British</b></p> <p><input type="checkbox"/> Caribbean</p> <p><input type="checkbox"/> African</p> <p><input type="checkbox"/> Any other Black background</p> <p><b>E Chinese</b></p> <p><input type="checkbox"/> Chinese</p> <p><b>F Other Ethnic Group</b></p> <p><input type="checkbox"/> Any other background</p>	<p><b>2. Sex</b></p> <p><input type="checkbox"/> Male      <input type="checkbox"/> Female</p> <p><b>3. Nationality</b></p> <p><input style="width: 100%;" type="text"/></p> <p><b>4. Are you disabled or do you have an impairment or medical condition?</b></p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p>(Examples of a 'condition' may include impairment of senses, co-ordination, memory, mobility, learning, health or well being)</p> <p><b>5. Date of birth</b>      <input style="width: 100%;" type="text"/></p>
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