Job Description

Comp ID:	036272
Job Title:	Research Fellow (Post-Doctoral Researcher) PaCE Project
School/Department:	School of Social Sciences and Philosophy, Department of Political Science
Job Category and Level:	Research, Appointment will be on the IUA Post-Doctoral Researcher Scale (IUA-Researcher-Salary-Scales) depending on experience and in line with current government pay policy.
Closing Date:	Monday, 9th January 2023, 1 pm (Irish time)

The Purpose of the Role

The Department of Political Science at Trinity College Dublin (TCD) seeks to appoint an outstanding, enthusiastic, and highly motivated Research Fellow who will contribute to a project that uses machine-learning methods to forecast interstate and civil wars (see forecastlab.org).

The post-holder will work in an exciting environment alongside a highly creative and motivated team, to acquire and analyse time series data from pre-conflict environments (both interstate and civil war) and apply recent machine learning techniques to forecasting the onset of these events.

Context

Our group is located in Trinity College, in the heart of Dublin. Trinity was founded in 1592 and is ranked as Ireland's No 1 University in the QS World University Ranking, the World University Ranking and the Academic Ranking of World Universities. It is a member of the League of European Research Universities. The Department of Political Science consistently ranks number #1 in Ireland, in the top 20 in Europe and in the top 50 in the world (QS rankings).

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. The successful post-holder will be supervised by Professor Thomas Chadefaux.

Main Responsibilities

Research

- Acquire and process time series data from finance, diplomatic cables, and newspapers
- Apply Machine Learning methods using Python/R
- Work on the classification of temporal patterns
- Contribute to the development of an early warning system for conflict
- Contribute to the growth of the methodological and substantive expertise of the team

Participate in the team's publications.

Person Requirements

The post-holder will require the following knowledge, skills and attributes for successful performance in the role.

Qualifications

Excellent academic record and have completed or be very close to completion of a Ph.D. in the following (but not limited to):

- Computer science
- Engineering
- Physics
- Political Science
- Economics

Knowledge & Experience

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

Essential:

- Excellent knowledge of Python
- Advanced knowledge of machine learning

Desirable:

- Advanced knowledge of econometrics
- Familiarity with Social Sciences

Skills

- Well-developed written and verbal communication skills and interpersonal skills.
- Planning and organisational skills, particularly coordinating processes and systems.

- Ability to represent the School and College on appropriate national and international advisory boards and professional bodies.

Personal attributes

- Capability and confidence to take ownership of problems and seek long term solutions.
- Career driven, enthusiastic and motivated.
- Commitment to own professional development

Application Information

Candidates should submit the following documentation via email to the address iversl@tcd.ie indicating exactly "[PaCE] Application" in the subject line:

- o A motivation letter clearly indicating how the applicant's profile and skills fit the requirements of this position (max. 2 pages);
- o A full curriculum vitae;
- o Names, affiliation, and contact details of 3 referees (with their email addresses included).

Application deadline: Monday, 9th January 2023, 1 pm (Irish time)

Further Information

Informal enquiries: contact Dr Jemimah Bailey (Department of Political Science TCD; baileyje@tcd.ie)

| Link to Area | Political Science - School of Social Sciences and Philosophy - Trinity College Dublin (tcd.ie) |

Trinity Competencies

In Trinity there are 6 Core Competencies that are applicable to all roles across a range of professional, administrative and support jobs, unlike specialist or technical skills which may be job specific. They provide a common language for describing performance and the abilities/attributes displayed by individuals. They focus on 'how' tasks are achieved, not 'what' is achieved.

Below is a summary definition of the 6 Core Competencies.

	Competency	Summary Definition
1	Agile Leader	Sees the big picture and harnesses opportunities to achieve the University's goals. Creates clear direction for the future and how to get there.
2	Unlocks Potential	Energised, capable and confident to take ownership and responsibility for their development and goals. Motivates, supports and develops people to perform to the best of their ability.
3	Service Ethos	Finds ways to increase stakeholder and customer satisfaction. Builds relationships, is proactive and delivery focused in order to anticipate, meet & exceed expectations.
4	Builds Trusted Relationships	Communicates in a clear and respectful manner building trust and commitment for mutually beneficial outcomes.
5	Decision-making	Confidently makes timely decisions based on knowledge, evidence and sound judgement.
6	Achieves Results	Delivers results by setting direction, planning, executing and evaluating impact.