

## C-NEWTRAL Doctoral Training 2024

### Candidate Information

<b>Position:</b>	Marie Curie Researcher, Doctoral Candidate (C-NEWTRAL, DC11)
<b>Hosting Institution</b>	Queens University Belfast, UK
<b>School/Department:</b>	School of Natural & Built Environment
<b>Application deadline:</b>	1 March 2024
<b>Job Start Date:</b>	1 September 2024
<b>Salary:</b>	£34,938 (including pension); Month Mobility Allowance £477 and Family allowance of £477 if applicable.

\*Please note that the figures provided above are estimates. Exact salary and allowances will be confirmed upon appointment.

### JOB PURPOSE:

As a Doctoral Candidate (DC), to be an active member of a research project team assisting in the delivery of research and training activities of the C-NEWTRAL Network, working on the specific topic of ‘*Social acceptance of environmental policy implementation for carbon-neutrality in neighbourhood planning*’ and required to work towards the expected results of this project (see Additional information below).

The Doctoral Candidate will undertake research in the framework of the project “*C-NEWTRAL: smart CompreheNsive training to mainstrEam neW approaches for climaTe-neutRal cities through citizen engAgement and decision-making support for innovative governance and integrated pLanning*”. The Doctoral Candidate will be funded for 36 months through the prestigious Marie Skłodowska-Curie Actions (MSCA) Doctoral Network (DN) programme; an initiative by the European Commission to train creative, entrepreneurial, innovative researchers, who are able to face current and future societal challenges, and will convert knowledge and ideas into products and services for the economic and social benefit of Europe.

C-NEWTRAL is an interdisciplinary network which concerns developing solutions, frameworks and cross-sectoral strategies for citizen engagement and city governance decision-making towards achieving climate-neutral cities in Europe.

### MAJOR DUTIES:

1. Carry out the research and training activities specified by a personal career development plan (PCDP).
2. Conduct research in interdisciplinary aspects of the social acceptance of renewable energy, as set out in the additional information below.
3. Undertake mandatory training programs and secondments as required at the facilities of other consortium members (see project website: <http://www.c-newtral.eu/>)
4. Actively participate in training activities and submit reports in fulfilment of the project requirements.
5. Participate in outreach and dissemination activities promoting the C-NEWTRAL Network project and the Marie Skłodowska-Curie Actions (MSCA) programme including the use of social media, video-diaries, newsletters, etc.
6. Prepare regular progress reports on the performed research and training activities and present the research outcomes at meetings, project workshops, and to external audiences to disseminate and publicise research findings.
7. Work closely with academic and industrial collaborators and facilitate knowledge transfer between the C-NEWTRAL consortium.
8. As a MSCA DN Ambassador carry out undergraduate supervision/demonstrating/teaching duties under supervisor direction and according to university regulations.
9. Study and follow the technical literature including academic papers, journals, and textbooks to keep abreast with the state-of-the-art in the project topical area.
10. Record, analyse and write up results of research work and contribute to the production of research reports and publications.

11. Carry out routine administrative duties as requested, e.g. arranging research programme group meetings, contribute to research programme website, contributing to organisation of C-NEWTRAL project training workshops and events.

#### **Planning and Organising:**

1. Contribute to the drafting of the PCDP and provide regular updates of this plan.
2. Manage own time and meet agreed deadlines.
3. Plan own day-to-day activity within the framework of the agreed research and training programme.
4. Contribute to the planning of research and training activities, reports, and publications.
5. Actively contribute to organisation of outreach activities events such as C-NEWTRAL workshops.

#### **Resource Management Responsibilities:**

1. Ensure research resources are used in an effective and efficient manner.
2. Provide guidance as required to support staff and any students involved with research and training.

#### **Internal and External Relationships:**

1. Liaise with research colleagues and support staff on routine matters.
2. Make internal and external contacts to develop knowledge and understanding and form relationships for future collaboration.
3. Attend and contribute to relevant meetings and training events.
4. Contribute to the project outreach programmes by establishing links with local community groups, industries etc.

#### **ESSENTIAL CRITERIA:**

1. Relevant experience and expertise in qualitative and quantitative methods, experience in empirical work.
2. Sufficient breadth or depth of specialist knowledge in available strategies, techniques and methods for investigation of neighbourhood planning and design, energy efficiency, post-occupancy evaluation.
3. Willingness to contribute to the School and project outreach activities.
4. Strong analytical and problem solving skills.
5. Ability to logically conceptualise and summarise the research findings.
6. Ability to work proactively and independently.
7. Ability to participate in knowledge transfer and demonstration.
8. Excellent verbal and writing communication skills.
9. Ability to interact with colleagues and staff.
10. Demonstrable intellectual ability.
11. Ability to communicate complex information clearly.
12. Ability to organise resources, manage time and meet deadlines.
13. Be willing and able to perform secondments or participate in training programs at the facilities of other European consortium members (see <https://www.glasgow.gov.uk/> - <https://www.comune.bologna.it/home>)
14. Not yet have been awarded a doctorate.
15. Must not have resided or carried out their main activity in Glasgow/Bologna for more than 12 months in the 3 years immediately prior to their selection for this post.
16. Willingness to occasionally work outside core hours, for example during data collection.
17. Be eligible and qualified for enrolment in the PhD programme at QUB.

**DESIRABLE CRITERIA:**

1. Masters Qualification in urban planning, urban geography, environmental studies, or urban studies with orientation to urban design.
2. Specialisation in policy analysis, urban sustainability, neighbourhood assessment or related field.
3. Employment or other practical experience of policy, development or other aspect of neighbourhood planning and design, post-occupancy evaluation, energy transition and sustainability.
4. Placements or work experience in an academic/commercial research environment relevant to policy-analysis, neighbourhood planning, post-occupancy evaluation,
5. Practical experience of applying specialist skills and techniques required for the project.
6. Willingness to assist in undergraduate supervision and teaching.

**ADDITIONAL INFORMATION:**

C-NEWTRAL (“*C-NEWTRAL: smart CompreheNsive training to mainstrEam neW approaches for climaTe-neutRal cities through citizen engAgement and decision-making support for innovative governance and integrated pLanning*”) is a four year European Training Network funded by Marie Skłodowska-Curie Actions (MSCA) Doctoral Networks (DN).

The C-NEWTRAL Network is made up of 5 European beneficiaries from Ireland, Italy, Germany, Finland, and Spain, and an Associated Partner that will train and host Doctoral Candidates, the UK. 12 Doctoral Candidates will be overall employed to conduct research on how to advance towards achieving climate-neutral cities on different dimensions through citizen engagement and decision-making support.

C-NEWTRAL will also draw on the knowledge and resources of 22 non-academic partners in Poland, Switzerland, Germany, Ireland, the Netherlands, Denmark, Romania, Finland, Hungary, Belgium, Spain, Italy, and the UK. These partners will host DCs for secondments, provide training, and promote and support the work of C-NEWTRAL.

**DC11 Project Title:** Social acceptance of environmental policy implementation for carbon-neutrality in neighbourhood planning. This project will belong to the work stream of Work Package 3: User-centred comparative analyses of building energy performance solutions in building clusters.

**Objectives:** The neighbourhood scale offers a critical location for securing decarbonisation through behavioural & built environment interventions. This research will focus on (i) users’ role and social inclusiveness/acceptance for energy transition, (ii) influence of environmental policy, and (iii) the technological and energy infrastructure of neighbourhood planning. The research will use critical social theory & daily-life experiences for analysis of social acceptance of barriers associated with energy transitions in neighbourhoods. Data obtained from policy analysis/household surveys/focus groups & interviews, and analysis of digital modelling on energy performance. The outcomes will further contribute to neighbourhood planning by assessing social and policy elements influencing neighbourhoods’ energy performance and transition to Positive Energy Districts [PEDs]. Neighbourhoods will be selected in Glasgow and Bologna - Mission Cities (by 2030). Considering users’ behaviour on energy consumption, the research will elaborate upon key aspects of densification, social inclusiveness & acceptance of energy infrastructure/technology, passive design, and district scale environmental policies. Specific objectives are: 1. Identify & analyse key modes of (community) occupation linked to energy consumption/energy saving/energy transition; 2. Analyse articulation of community inclusiveness with energy infrastructure & alternative technologies for energy saving/energy transition; 3. Identify & analyse environmental policy strategies for neighbourhood planning that influences social behaviours linked to energy efficiency & transition; 4. Identify key technological/ infrastructure aspects of neighbourhood planning for energy transition, and how they articulate efficient modes of occupation through the PEDs lens.

**Expected Results:** 1. An organised dataset of neighbourhood planning criteria, energy infrastructure, & planning policies for energy transition linked to neighbourhoods' energy performance/efficiency; 2. A list of effective pathways for implementation of planning/ environmental policies for energy efficiency in neighbourhoods; 3. A dataset of efficient social & users' behavioural practices and barriers linked to neighbourhood energy efficiency; 4. Good practices in neighbourhood planning (including good community practices for energy efficiency & implementation of energy infrastructure) for energy transition.

**Planned secondment(s): Non-academic:** *City of Glasgow* (Ms. Shaw, M15-18); *Purpose:* gain insights into the comparative aspects of the urban form and institutional contexts of cities; analyse how digital modelling is used in practice to inform policy; **Academic:** *UNIBO* (Prof. Gaspari, M18-23); *Purpose:* experience digital modelling of energy solutions in buildings/building clusters

**Academic Supervision at Host Institution:** Dr. Silva; Prof. Ellis; **Academic Secondment:** Prof. Gaspari (UNIBO);

### **Application Procedure:**

The candidate will be selected on the basis of the quality of the application, expertise, work experience, and qualifications. In the first instance, an expression of interest should be lodged containing the following documents (in English) consolidated **into one single PDF** and sent via the website (<http://www.c-newtral.eu/>).

- A current CV (max 2 pages)
- A short cover letter (max 300 words) explaining briefly your motivation and key research experience/achievements that demonstrate independent thinking and your ability to complete a PhD.
- A research outline (max 500 words) related to the DC topic (to suggest how you meet and can develop further the research project described in this ad). If you are applying for up to 3 PhD positions in C-NEWTRAL, you can refer to all, while prioritising your choices.
- Details of 2 referees (names, contact details) who can provide information about your qualifications
- Official Academic Record - Bachelor's and Master's Diplomas and Transcripts
- One work sample demonstrating prior achievement in research, enquiry or debate, e.g. a published paper or software, standards or policy contribution; extract of dissertation or master's thesis;

After an initial screening, shortlisted candidates will be required to attend an online or in-person interview. They may be required to furnish/present a more detailed research proposal comprising literature review, methodology, expected contribution. Only shortlisted candidates will be contacted.