

## **Fully-Funded Ph.D. Position on Advanced cooling technologies at University College Dublin**

I am very glad to announce an exciting PhD student opportunity to join the School of Mechanical & Materials Engineering at University College Dublin (UCD). You will be a highly motivated individual devoted to world-leading research in heat transfer field. You are expected to work with established research teams, addressing challenging fundamental aspects as well as industrial applications of advanced cooling technologies. Applicants with a background in mechanical engineering, thermodynamics, energy or chemical engineering are equally encouraged to apply.

The fully-funded PhD student will be supervised by Dr Xuehui Wang ([xuehui.wang@ucd.ie](mailto:xuehui.wang@ucd.ie)) and the post will last for 4 years. The expected start date is negotiable but should be before Jan 2025.

### **How to apply**

Potential applicants should directly send the documents to Dr Xuehui Wang at [xuehui.wang@ucd.ie](mailto:xuehui.wang@ucd.ie). Please merge all documents as a single document.

1. A one-page cover letter describing how you meet the requirements.
2. A detailed curriculum vitae (CV) covering your education, projects and publications.
3. Scanned copies of relevant academic transcripts.
4. English Language Proficiency certification for non-native English speakers, in line with UCD requirements at <https://www.ucd.ie/registry/prospectivestudents/admissions/policiesandgeneralregulations/generalrequirements/minimumenglishlanguage/requirements/>.
5. Two references.
6. Maximum two-page research proposal, summarising research to be carried out in the next four years.

### **Requirements**

1. Research background in mechanical engineering, thermodynamics, energy or chemical engineering, etc.
2. Strong publication/patent records.
3. Good command of both oral and written English
4. Experience of experimental and theoretical studies
5. Excellent programming and image processing skills (e.g. MATLAB, Python).

### **Benefits**

1. Full tuition fee waiver.
2. €22k stipend annually
3. Travel budget for domestic/international conferences.
4. Teaching assistant position with competitive payment every year.

### **Equality, Diversity, and Inclusion**

UCD is committed to creating an inclusive environment where diversity is celebrated, and everyone is afforded equal opportunity. To that end, the university adheres to a range of equality, diversity, and inclusion policies. We encourage applicants to consult those policies. We welcome applications from everyone, including those who identify with any of the protected characteristics that are set out in our Equality, Diversity, and Inclusion policy.

### **About UCD**

UCD is the largest university in Ireland and is a leading Irish university with a global ranking of #171 (QS 2024 ranking). It is ranked #1 in Ireland and #87 worldwide for graduate employability. The graduates from the School are in high demand by industry. Please note that UCD offers a number of graduate scholarships for full-time, self-funding international students, holding an offer of a place on a UCD graduate degree programme

### **Relevant Links**

- 1) <https://www.ucd.ie/graduatestudies/studywithus/applicationprocess/>

- 2) <https://www.ucd.ie/slcl/study/postgraduateresearchprogrammes/phdmlittapplicationprocess/>
- 3) <https://www.ucd.ie/global/study-at-ucd/scholarshipsfinances/scholarships/>
- 4) <https://www.ucd.ie/global/scholarships/>
- 5) <https://www.ucd.ie/graduatestudies/studywithus/feesfundingandscholarships/chinaascholarshipscheme/>