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October 6, 2020

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December 14, 2021

Intel Ireland Christmas Giveaway!

(<https://newsroom.intel.ie/news-releases/intel-ireland-christmas-giveaway-2/>)



December 10, 2021

Intel employees donate over €68,000 to Cycle Against Suicide and Ronald McDonald House Charities

(<https://newsroom.intel.ie/news-releases/intel-employees-donate-over-e68000-to-cycle-against-suicide-and-ronald-mcdonald-house-charities/>)

Intel continues its research partnership with AMBER – the centre for Advanced Materials and BioEngineering Research

Intel has recently concluded an agreement to enable our fundamental research activities to continue within the AMBER centre for the next six years

In recent years Intel Ireland has driven a unique approach to academic partnership through our *Memorandum of Understanding* (MoU) programme. The programme encompasses tailored interactions with students and faculty at a number of Irish universities to further enhance, develop and attract a diverse technical talent pipeline.

To date, Intel has established six key partnerships with Trinity College Dublin, University College Dublin, Dublin City University, Technological University Dublin, University of Limerick and Maynooth University. The partnerships focus on a variety of areas such as talent development, research, and national policy associated with research and education.

Furthering research partnerships

For over 15 years Intel has partnered with academic institutions across Ireland to engage in specific, world-class, fundamental science research activities, providing vital collaboration opportunities to our corporate partners for in-house research strategies that are relevant to our industry needs.

In collaboration with University Research Institution colleagues in this endeavour, Intel has forged deep working and technical relationships between the company and its MoU partners, which have also helped to enable the talent pipeline development across the University departments.

One such research partnership, initiated in 2004, began with Intel Ireland being a founding Industrial partner within the Trinity College Dublin research centre, CRANN (Centre for Research on Adaptive Nanostructures and Nanodevices). CRANN now hosts the SFI Research Centre, AMBER (Advanced Materials and Bio-Engineering Research), and Intel Ireland continues to be actively engaged as an industrial research partner. With three Intel Ireland "Researchers in Residence" located in relevant AMBER labs in TCD, DCU, and the Tyndall National Institute, important fundamental research to investigate new materials for potential inclusion into future process technology flows is on-going.



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[content/uploads/sites/26/2020/10/John-Boland-and-Mike-Mayberry-scaled.jpg](https://newsroom.intel.ie/content/uploads/sites/26/2020/10/John-Boland-and-Mike-Mayberry-scaled.jpg)

In 2018 Professor John Boland was presented with an Intel Outstanding Researcher Award by Dr. Michael Mayberry

Research projects of this nature are hard-won, and only world-class researchers and labs are chosen for Intel engagement in such collaborative activities. The selection process, managed by a Corporate Research Council, is rigorous and scans activities across the world for suitable partnerships. Intel Ireland has had many successes in this space, and its research partners have won four "Outstanding Researcher Awards" over the years, including [one for Professor John Boland's AMBER-based activities \(https://newsroom.intel.ie/news-releases/professor-john-boland-awarded-intel-outstanding-researcher-award/#gs.hh3hzg\)](https://newsroom.intel.ie/news-releases/professor-john-boland-awarded-intel-outstanding-researcher-award/#gs.hh3hzg) in TCD relating to the 2017 Science-published work into the behavior of the building blocks of thin film copper.

Intel has recently concluded an agreement to enable our fundamental research activities to continue within the AMBER centre for the next six years and has just started two new collaborative research projects.

Collaborative Research Projects

In the first project, the aim is to use modelling to gain insight into the electronic structure of oxides. The modelling approach will be based on a technique known as Density Functional Theory (DFT), which has been in use since the 1970s, and is now the 'standard model' of the solid state. However, there are some significant shortcomings with this approach, which leads to underestimated bandgaps, which is particularly severe for oxides. In this project, we will work together with Trinity College Dublin researchers, led by AMBER Principal Investigator Professor David O'Regan.



(<https://newsroom.intel.ie/wp-content/uploads/sites/26/2020/10/Jennifer.png>)

Pictured is Intel researcher Jennifer Mckenna

The second project, entitled '3D Composite Core Inductors Integrated into Package', will endeavor to develop and make new novel magnetic composite materials for package-integrated inductors. Inductors are key components of fully integrated voltage regulators which power Intel processors. Using magnetic materials in the inductor device will hopefully improve voltage conversion efficiency while achieving higher inductance per area density. The research project will involve AMBER labs in Trinity College Dublin led by Professor Mick Morris, and Tyndall in University College Cork led by Dr. Paul McCloskey.

Speaking about the renewed commitment by Intel to engage in fundamental research activities with the AMBER centre over the coming years, Bernie Capraro, Intel Research and Higher Education Programme Manager, said; "Intel has been cultivating a research and innovation footprint here in Ireland for more than 15 years, a footprint that is built on the strong relationships we have developed with academic institutions across the country. This new agreement with AMBER demonstrates the ongoing value of these research partnerships and the ability for Irish institutions to deliver world class, leading-edge research".

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Memorandum of Understanding (MoU) programme

As part of a unique MOU programme, Intel has defined partnerships with a number of Irish universities to further enhance, develop and attract a diverse technical talent pipeline.

- Intel and Trinity College Dublin sign first ever partnership to boost innovation (<https://newsroom.intel.ie/news-releases/intel-and-trinity-college-dublin-sign-first-ever-partnership-to-boost-innovation/#gs.hh10va>)
- Intel and University College Dublin sign first ever Partnership (<https://newsroom.intel.ie/news-releases/3328/#gs.hh132g>)
- Intel joins forces with DCU to foster talent and develop advanced technologies (<https://newsroom.intel.ie/news-releases/intel-joins-forces-dcu-foster-talent-develop-advanced-technologies/#gs.hh163c>)
- Intel embark upon new partnership with University of Limerick (<https://newsroom.intel.ie/news-releases/intel-embark-upon-new-partnership-university-limerick/#gs.hh19ia>)
- Intel and TU Dublin announce 5-year Strategic Partnership (<https://newsroom.intel.ie/news-releases/intel-and-tu-dublin-announce-5-year-strategic-partnership/#gs.hh1b8m>)
- Maynooth University and Intel Ireland sign Memorandum of Understanding creating strategic research and innovation partnership (<https://newsroom.intel.ie/news-releases/maynooth-university-and-intel-ireland-sign-memorandum-of-understanding-creating-strategic-research-and-innovation-partnership/#gs.hh1e6r>)

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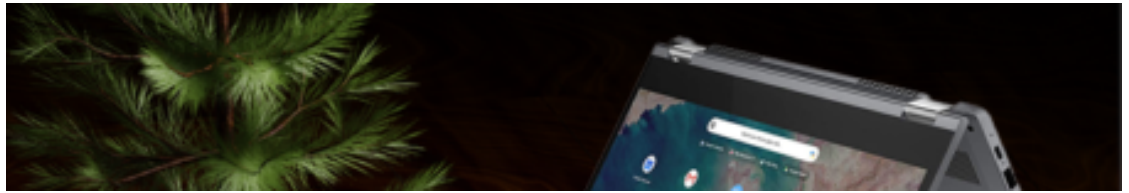
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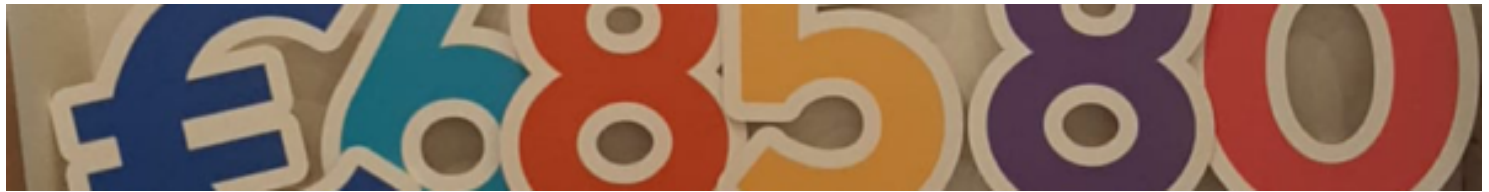
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