

**Applications are invited for the following a PhD studentship for the following project:**

**The drying of nanosheet suspension**

The position will be based with the Möbius group (School of Physics) within the Advanced Materials and Bioengineering Research Centre (AMBER) centre in Trinity College Dublin.

**Summary of project**

Nanosheet suspensions have emerged as promising candidates for inks in printed electronics due to the wide range of electrical and chemical properties exhibited by different 2D nanomaterials. The films are created by suspensions droplets deposited on a substrate via inkjet printing. The drying process of these droplets is a complex phenomenon and the uniformity and structure of the films depends on many parameters such as particle shape and evaporation rate. In this project we will elucidate how the drying dynamics and particle properties of these suspensions affect the resultant microstructure of the films.

For more information please contact Prof. Möbius (mobiusm@tcd.ie)

The ideal applicants will have a 1<sup>st</sup> Class Honours Bachelor's degree in *Physics*. Excellent written and oral communication skills are essential. Previous experience in Matlab, Python or nanomaterials would be advantageous but not essential.

How to apply: CVs with the names and addresses of three referees should be submitted to. Please send your CV with the names and addresses of three referees by email to Prof. Matthias Möbius, mobiusm@tcd.ie.

Positions will remain opened until filled but the preferred start date is between *September and October 2020*. Only short-listed applications will be acknowledged.

**This position is funded by SFI through a Career Development Award grant.**

The AMBER research centre, as a community of researchers, welcomes its responsibility to provide equal opportunities for all. We are actively seeking diversity in our research teams and particularly encourage applications from underrepresented groups.