



Name: Kevin Moroney

Degree	Awarding Institution	Topic/title
PhD	University of Limerick	Heat and Mass Transfer in Two-phase flows
MSc	University of Limerick	Mathematical Modelling <b>Thesis:</b> Mathematical Modelling of Haptic Touchscreens
BSc	University College Cork	Mathematical Sciences

**Current research:** Investigation of physical models relating to granular flow and compaction in the dry granulation and direct tableting processes. Consideration of fundamental modelling of the spray drying process with a view to predicting the final properties of the dried powder for different process parameters.

Position	Company/institution	Key responsibilities
Postdoctoral Research Associate	University of Limerick	Modelling of physical processes related to dry granulation, direct tableting and spray drying

**Research expertise keywords:** Mathematical modelling, physical modelling, model analysis, fluid dynamics, porous media flows, asymptotic analysis.

**Existing industry interaction to date - any secondments, placements, project work, etc.**

Two PhD projects with industrial collaborators:

1. Mathematical modelling of coffee extraction with Philips Research, Eindhoven.
2. Mathematical modelling of contact lens hydration with the Automation Centre of Excellence (Johnson & Johnson) in Limerick.

**Additional information/hobbies/interests/expertise:**

