



PhD Research Position in Food Science

Studies on physicochemical properties of novel ingredients for application in infant formula

Applications are invited for postgraduate study in the area of physicochemical evaluation and optimisation of novel ingredients for application in infant formula. This study will be conducted at PhD level. The project will involve chemical characterisation (e.g., protein profile, degree of denaturation, aggregation etc) and study of physicochemical properties (e.g., solubility, viscosity, thermal stability, emulsification, formulation interactions etc) of novel ingredients of relevance in infant formula manufacture. The project will also incorporate strategies for modification and improvement of the properties of such novel ingredients to optimise their physicochemical and nutritional performance in infant formula applications. This work will be mainly conducted at laboratory scale with proof of concept testing taking place at pilot plant scale. The knowledge gained in this project will be beneficial in the development of new ingredients for infant formula manufacture.

The successful candidate will be based in the School of Food and Nutritional Sciences at University College Cork. Some time may also be spent at the research and development facilities of the supporting industry partner and at other research centres outside of University College Cork, as required. The candidate will be expected to initiate the research on or before 1st October 2011. The scholarship has a value of €22,000 per annum, from which fees must be paid. A minimum of 2.1 honours degree in Food Science, Food Chemistry, Food Technology or related discipline is required. Where relevant, candidates need to show proven competency in the English language.

Academic supervisor: Dr. Seamus O'Mahony, School of Food and Nutritional Sciences, University College Cork.

Applications (CV with cover letter, referring to “**Infant Formula Ingredients**”) and informal queries should be sent, by e-mail, to Dr. Seamus O'Mahony, School of Food and Nutritional Sciences, University College, Cork, Ireland.

e-mail: sa.omahony@ucc.ie

Closing date: Friday 19th August 2011 or as soon as the position has been filled