

Synthesis and Properties of New Super-Lipophilic NIR Absorbers

A PhD fellowship in synthetic organic chemistry is available at the Department of Chemistry, University of Copenhagen. The starting date of the PhD fellowship is April 1st 2009 or soon thereafter and the project is financed by the Danish Research Council. In the PhD project the design, synthesis and detailed characterisation of new types of NIR absorbers will be undertaken. The properties of the NIR absorbers as small-molecules and as part of polymers and/or block co-polymers will be examined. The project is part of a larger collaborative project aiming to understand the welding compatibility of plastics and the new NIR absorbers will be tested for their application in welding experiments in collaboration with industrial and academic partners.

We offer a position in an exciting research environment where synthetic (organic) chemistry is used in concert with physical-organic chemistry, computational methods and spectroscopic methods to solve problems in contemporary organic chemistry.

The successful applicant should have master degree (or equivalent) in synthetic chemistry and have good experimental skills. Experience with modern tools from physical organic chemistry (e.g. photo-physical properties of molecules) is an advantage. Motivation is a key factor, and we offer the right candidate the opportunity to shape the project at the forefront of scientific and technological developments.

The PhD student will be enrolled at the Faculty of Science, University of Copenhagen, and the PhD employment is for a total of 3 years.

Supervisors: Assistant Professor Michael Pittelkow, Assistant Professor Bo W. Laursen and Professor Klaus Bechgaard. For further information contact Assistant Professor Michael Pittelkow, e-mail: pittel@kiku.dk.

Please provide the following information: 1: CV, 2: Exam papers, 3: Letter(s) of recommendation, 4: A cover letter (maximum 1 page).

Deadline for application including all material is March 15th at 12:00 (noon).

Applications should be sent as a single pdf file to pittel@kiku.dk.

This project is a collaboration between the University of Copenhagen, Coloplast A/S, Novo Nordisk A/S, Tecnological Institute, FORCE Technology and the Ålborg University entitled: 'Expanding the Weld Compatibility of Plastics'. The project is funded by The Danish Agency for Science Technology and Innovation as part of the governments 'globaliseringspuljen'. The PhD student is expected to commence his/her work in the spring of 2009.

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