

PhD Studentship

Professor J. Lewandowski

PhD project: Solid/solution-state NMR spectroscopy and cryo-electron microscopy methodology for the characterisation of aggregation mechanisms in proteins - 4-year industrial CASE with GSK

Supervisor: Academic: Prof. Józef Lewandowski, Industrial: Dr. Tran Pham

Funding availability: Oct 2020

Deadline: 31st July 2020

Project description: Applications are invited for a 4-year full-time industrial CASE doctoral studentship co-funded by the Biotechnology & Biological Sciences Research Council (BBSRC) and GSK. The studentship is a collaborative partnership between GSK and the University of Warwick.

GSK is a science-led global pharmaceutical and healthcare company. GSK undertakes research and development in a broad range of innovative products in the primary areas of Pharmaceuticals, Vaccines and Consumer Healthcare and is committed to the mission of improving the quality of human life by enabling people to do more, feel better and live longer. For further information please visit www.gsk.com.

The University of Warwick is world class university with an impressive international reputation in academic excellence in research and teaching. Warwick Chemistry is one of the top UK Chemistry Departments. Further details at: www2.warwick.ac.uk/fac/sci/chemistry.

The project will be conducted at the Warwick Laboratory for Magnetic Resonance (<http://www2.warwick.ac.uk/fac/sci/physics/research/condensedmatt/nmr>), which is a world-class biological and material science magnetic resonance set up hosting 7 academic staff from Physics and Chemistry and housing a suite of 8 solid-state NMR spectrometers (from 100 to 700 MHz), 2 dynamic nuclear polarization (DNP) spectrometers (94 and 200/400 GHz) and advanced EPR instrumentation. A wide range of magic angle spinning probes is available at the laboratory including number of 1.3 mm probes (spinning frequencies up to 67 kHz), 0.8 mm probe (spinning frequencies up to 100 kHz) and 0.7 mm probe (spinning up to 111 kHz). Access to 850 MHz and 1 GHz will be possible through the National Solid-state NMR Research Facility also hosted at University of Warwick. Solution NMR facilities include 500, 600 and 700 MHz spectrometers (<http://chemnmr.warwick.ac.uk>).



The project will also benefit from access to a Chemical Biology Research Facility providing cutting edge infrastructure for organic synthesis, molecular biology, protein chemistry, microbiology, radiochemistry and biophysical/biochemical analysis.

More info on the Lewandowski group can be found at:

<http://www2.warwick.ac.uk/fac/sci/chemistry/research/lewandowski/lewandowskigroup>

The student will primarily be based at University of Warwick. The student will gain valuable research experience in both an academic and an industrial setting with appropriate research supervision provided by both the Academic (Prof. Józef Lewandowski) and Industrial (Dr. Tran Pham) supervisors throughout the course of this collaborative research project. The collaboration will involve the student spending a minimum of three-months at a GSK research facility.

Funding:

Funding covers university course fees, an annual maintenance stipend. For the duration of the Project, the Student will receive a stipend equivalent to at least the current BBSRC rate; for the academic year 2020/21 this rate is £15,285. A fixed sum of £8,000 pa for four years (exclusive of VAT) will be paid by GSK to support the studentship. This will be used to supplement the annual maintenance (up to £3,000 pa) and support research expenses. In addition, £350 pa of GSK's funds will be allocated for the Student's travel to scientific meetings. The studentship must begin by October 2020.

Requirements:

Motivated applicants should have (or be about to receive) an honours degree (at least 2.1 in the UK system or equivalent) in chemistry, physics or biology. Excellent writing and communication skills in English are required.

Residency requirements:

Applications are invited from UK/EU citizens who have been ordinarily resident in the UK for the 3 years immediately preceding the start of studentship. Candidates must also have no restrictions on how long they can remain in the UK. EU Citizens who have not been residing in the UK for the past 3 years may be eligible for a fees only award.

Equality and Diversity:

We are committed to supporting staff to achieve their potential. Both the Department of Chemistry and the University of Warwick hold Athena SWAN silver awards, a national initiative that recognizes the advancement of gender equality, representation, progression and success for all in academia.

How to apply:

Motivated candidates should send a CV and cover letter to Prof. Józef Lewandowski at j.r.lewandowski@warwick.ac.uk

Details on the formal application procedure can be found at <http://www.go.warwick.ac.uk/pgapply>