



External Advert

TWO VACANCIES FOR NMR/MS SPECTROSCOPISTS WITH DATA ANALYSIS SKILLS FOR PLANT METABOLOMICS

Two experienced NMR/MS spectroscopists are required to join an integrated plant metabolomics research team at Rothamsted Research, the UK's leading agricultural research centre. The successful candidates will join an established (10 years) and well equipped metabolomics centre that has played a leading international role in the development of plant metabolomics. The facility is a national centre of excellence in plant metabolomics and provides data for a wide range of projects internally, serving established projects within the Institute Strategic Programmes on crop improvement, and also to external academic collaborators and industrial contracts.

Vacancy 1324 The postholder will be responsible for operation and maintenance of both NMR (600 and 400MHz) and ESI-MS instrumentation (direct infusion and Orbitrap LC-MS), supporting the high throughput screening and structure determination activities. Additional responsibilities will include metabolite identification *via* advanced 1D NMR, 2D NMR and very high resolution LC-MS-MS, spectral database assembly and curation, data processing/analysis and provision of results for reports and publications. The postholder will most likely be a post-doctoral chemist with proven experience in NMR and LC-MS spectroscopy. Previous experience for instrument maintenance as well as operation is essential as is a track record in hands-on 1 and 2D NMR and LC-MS data collection. Data interpretation and downstream analysis should form a significant part of the candidates portfolio, and a proven ability to analyse large scale datasets in a metabolomics context is highly desirable. This post is full time and available for 3 years within Band D with a salary normally in the range of £29,547 to £36,051 per annum or for an exceptional candidate dependent on qualifications and relevant experience this could be increased to Band E with a starting salary of £37,515 to £41,028 per annum.

Vacancy 1329 The post-holder will be an experienced organic mass spectroscopist and will be responsible for operation and maintenance of both multiple GC-MS instrumentation and operating systems (including MSD, Waters GCT, Leco Pegasus-TOF) as well as a Waters MalDI-TOF and Thermo LC-MS. The post holder will support high throughput screening and targeted mass spectrometry activities. Additional responsibilities will include ¹³C and ¹⁵N isotopomer calculations, metabolite identification, library assembly and curation, post spectral processing/analysis and provision of results for reports and publications. The postholder will be an analytical chemist with proven experience in GC-MS, preferably with additional expertise in isotopomer calculations. A track record in instrument maintenance and troubleshooting as well as automated operation is essential. Skills in MS data processing, chromatographic alignment and MS spectral interpretation are essential. Data analysis will form a significant part of the remit and experience in analysis of large scale datasets, especially in a metabolomics context is highly desirable. This post is full time and available for 2 years within Band D with a salary normally in the range of £29,547 to £36,051 per annum.

For both posts, knowledge of organic spectroscopy techniques from a plant science perspective and a grasp of biosynthetic pathways are desirable but not essential, and candidates with a track record in clinical or microbial metabolomics are also encouraged to apply. However, an ability to process, interpret and present data and results derived from it are essential as is the ability to write scientific publications, prepare reports and give oral presentations. These skills will need to be demonstrated. Informal enquiries are welcome to Dr Jane Ward (Jane.ward@rothamsted.ac.uk).

Apply by application form only, available with further particulars from www.rothamsted.ac.uk or from the HR Group, Rothamsted Research, Harpenden, Herts, AL5 2JQ, rres.hr@rothamsted.ac.uk. Closing date for both posts: 29 May 2014

An Equal Opportunities Employer



As users of the disability symbol, Rothamsted Research guarantees to interview all disabled applicants who meet the minimum criteria for our vacancies.