



Job title	DNP MAS NMR Facility Manager Senior Research Fellow	Job family and level	Research and Teaching Level 5
School/ Department	Physics and Astronomy	Location	Sir Peter Mansfield Imaging Centre, University Campus

Purpose of role

To manage the DNP MAS NMR Facility at Nottingham. You will be expected to operate and maintain the Facility's 600 MHz DNP MAS NMR spectrometer, and to provide support, guidance and supervision for Facility users in all aspects of DNP MAS NMR. You will also develop your own research programme.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	Management and Administration <ul style="list-style-type: none">To manage the DNP MAS NMR Facility as part of the Facility's Local Operations Group and to advise the Facility Management BoardTo administrate and further develop the external user baseTo liaise with service engineersTo write the Facility's annual reportTo carry out promotional activities to advertise the Facility to a wider communityTo assist users of the Facility with collaborative grant applications	20%
2	Support and Guidance <ul style="list-style-type: none">To provide technical support, expert guidance and, where appropriate, supervision for Facility users with all aspects of DNP MAS NMRTo carry out DNP MAS NMR experiments on behalf of internal and external collaborators.	50%
3	Maintenance and Operation <ul style="list-style-type: none">To oversee the daily operation of the Facility's 600MHz DNP MAS NMR spectrometerTo carry out routine maintenance and changes of configuration of the spectrometerTo maintain and update the Facility's webpage	20%
4	Research <ul style="list-style-type: none">To develop an individual research programme in DNP MAS NMR	10%

Person specification

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Excellent oral and written communication skills. ▪ Excellent data analysis skills, especially with respect to processing, analysis and simulation of NMR data. ▪ Excellent organizational skills. ▪ Ability to initiate and maintain collaborations with researchers, both NMR specialists and non-specialists. 	<ul style="list-style-type: none"> ▪ Linux administration skills ▪ Expert use of Topspin
Knowledge and experience	<ul style="list-style-type: none"> ▪ Comprehensive research training in solid-state MAS NMR spectroscopy. ▪ Practical experience of and expertise in developing and implementing a wide range of advanced solid-state MAS NMR experiments. ▪ Practical experience of and expertise in applying solid-state NMR to materials or biological systems. ▪ Practical experience operating and maintaining a DNP MAS NMR spectrometer 	<ul style="list-style-type: none"> ▪ Practical experience in the use of cryogenic and vacuum equipment ▪ Practical experience in maintaining NMR instrumentation. ▪ Experience of managing major research projects. ▪ Experience of being responsible for delivering effective safety methods within a lab, compliant with the Health & Safety at Work Act.
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ MSci in Physics, Chemistry or Life Sciences or a related subject where a substantial component of the research involved solid-state NMR spectroscopy. ▪ PhD in Physics, Chemistry or Life Sciences or a related subject. 	<ul style="list-style-type: none"> ▪ Training in website administration ▪ Training in maintenance of NMR instrumentation, in particular MAS NMR probes



The University of Nottingham is focused on embedding equality, diversity and inclusion in all that we do. As part of this, we welcome a diverse population to join our work force and therefore encourage applicants from all communities, particularly those with protected characteristics under the Equality Act 2010.



The University is a signatory of the Declaration on Research Assessment (DORA). As such we commit to focus on the scientific content of publications (where requested or provided as part of the recruitment and selection process) as a basis for review of quality, and consideration of value and impact of research conducted, rather than any proxy measures such as Journal Impact Factor.

Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

- Valuing people** Understands that it is essential to provide a structure that people can thrive in. Knows how to communicate with people to create a healthy working environment and get the best out of people.
- Taking ownership** Communicates vision clearly, providing direction and focus. Knows how to create a productive environment where people are inspired and can work cross-departmentally in partnership.
- Forward thinking** Has the ambition to be a pioneer in own area, anticipating the future change, needs and challenges. Knows how to innovate within their work context and champions others to be inspired to be part of this ambition
- Professional pride** Keeps up to date on latest thinking, trends and work practices. Supports team to be thought leaders; willing to challenge if obstacles get in the way.
- Always inclusive** Establishes far reaching partnerships, well beyond own area across a broad range of networks. Understand role to pay due regard to the needs of the whole community.

Key relationships with others

