

Candidate Information

Position:	Development Chemist - KTP Associate - Kilwaughter Minerals Ltd
School/Department:	KTP and Business Networks
Reference:	18/106732
Closing Date:	Wednesday 19 September 2018
Salary:	£24,000 - £32,000 per annum. One of the key KTP benefits for graduates is access to a £9,500 training and travel budget over the 24 month project.
Anticipated Interview Date:	Tuesday 9 October 2018
Duration:	24 months

Job Purpose

The development of a unique water repellent technology to incorporate into both a transparent coating for render and a masonry paint.

We wish to recruit a highly skilled and motivated chemistry graduate to work in Kilwaughter Minerals Ltd. in collaboration with Queen's University Belfast. Through this Knowledge Transfer Partnership, Kilwaughter Minerals Ltd. seeks to develop a unique water repellent technology to incorporate into both a transparent coating for render and a masonry paint. These coatings will be designed to be applied over exterior masonry substrates to provide them with greater protection against microbial infection including mould and algae. The postholder will be based in Kilwaughter Minerals Ltd., Larne.

Under the guidance of the company and academic supervisors the KTP Associate will provide the expertise necessary to will deliver the following key integrated project phases:

1. Literature review and market research.
2. Hydrophobic liquid coating material preparation and characterisation.
3. Product development, testing performance of the coatings.
4. Optimisation and testing of coating materials for microbicidal activity.
5. Scale up of production to pilot scale.
6. Customer site trials and evaluation.
8. Development of business case.
9. New capability embedded in the company.

Planning and Organising

- Manage and coordinate the items of work as laid out in the project plan (individual work plan will be provided by Supervisors).
- Plan day-to-day activity within the framework of the agreed work plan.
- Contribute to the planning and management of the project, approximately 3-6 months in advance.
- Ensure that all training and development activity is scheduled to ensure that progress on the work plan objectives is not interrupted or delayed.

Resource Management and Responsibilities

- Plan and manage day-to-day resources to ensure the project runs to time and on budget.
- Coordinate and obtain approval for planned expenditure/allocation of resources with the Management Committee and Steering Group.
- Carry out supervision of placement students or other staff members as required.
- Monitor travel and development budgets and produce a Personal Development Plan which will ensure best use of financial resources.
- Attend training modules (mandatory and additional job-specific training). This may be local, national and international.
- Perform any other additional duties as agreed by the Local Management Committee and Steering Groups to contribute to the development of the company, the university and the Associate.

Internal and External Relationships

- Present regular progress reports to members of the Steering and Management Groups and to external audiences.
- Liaise with company staff on a daily basis. Contribute to training of staff in the company and university as required.
- Build relationships with both company and university staff to ensure effective working practices are established.
- Attend and contribute to any appropriate meetings, both in the company and the university as required.
- Establish contacts with additional groups and organisations (other KTP Associates, other university departments, other industrial contacts, and Innovate UK) as required to develop knowledge and understanding and form relationships for future collaboration.
- Act as an Ambassador for the Knowledge Transfer Partnership Scheme.

Additional Information

- Knowledge Transfer Partnerships is a UK programme that enables businesses to work with universities to gain access to specialist knowledge and expertise and apply it within their organisation. Each Partnership recruits a Graduate to work in the company, implementing and embedding the latest research techniques. Guidance is provided by the academic and company supervisors to ensure that the objectives of the project are met. Although the scheme is aimed at recent graduates, any suitably qualified individual may apply.
- Each KTP is a fully salaried job that lasts between twelve and thirty six months, providing the graduate with an opportunity to fast track a career in industry. Each KTP Associate has a training and development budget and a travel budget. This funding provides opportunities for job-specific training, attending and presenting at conferences, visiting trade shows, customers and suppliers etc. Two, one week residential management training modules are also provided as part of the package.
- As members of University staff, KTP Associates can join the University pension scheme, gain access to University resources such as the Library and sports facilities.

More details are available at www.ktpjobsni.com.

ESSENTIAL CRITERIA

- Hold at least a 2.1 Honours degree (or equivalent) in Chemistry, or a closely related discipline.
- Familiar chemical synthesis procedures to at least Bachelor's degree level.
- Experience with standard chemical characterisation techniques including NMR, optical spectroscopy, IR spectroscopy, TGA and DSC.
- Good oral written and presentation skills.
- High level of IT skills.
- Ability to work effectively as a member of a group.
- Well organised, attention to detail and ability to meet tight deadlines.
- An interest in staying with the Company. (Associates are normally invited to apply for permanent positions).
- Ability to take part in Associate management courses (requiring two one-week periods in England).
- Willing/able to travel throughout the UK and Ireland and abroad, as necessary.

DESIRABLE CRITERIA

- Hold a higher degree in a relevant discipline.
- 1 year's relevant research experience.
- Knowledge and understanding of product formulation.
- Experience of synthesis and characterisation of ionic liquids.
- Experience in material characterisation techniques such as SEM, TEM, PXRD, contact angle, Raman spectroscopy.
- Ability to deliver training and follow-up support to operatives.
- Ability to influence people effectively.
- Tenacious and committed to achieving goals.