

KTP Associate Role Profile

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| Job Title: | OMICS Research Scientist (KTP Associate, Waters) |
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| Business Partner / University School | Micromass UK Limited/Waters Corp and the University of Surrey's Biochemical Sciences |
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| Based at: | Micromass UK Limited (Waters), Stamford Avenue, Altrincham Road, Wilmslow, Cheshire, SK9 4AX |
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Job Summary and Purpose:

Micromass UK (Waters Corp) and the University of Surrey are jointly recruiting a recent PhD graduate to lead a Knowledge Transfer Partnership (KTP) project in accordance with a pre-defined programme of works.

The KTP programme is a graduate recruitment scheme. It supports a RECENT graduate or postgraduate (the Associate) transition from university to a career in industry. It is a chance to deliver impact and can be the perfect launchpad, helping enhance your career. As well as business-based training, the Associate is provided a dedicated training budget and time ringfenced specifically for their further development including a diverse range of non-technical skills, such as project management and leadership.

A KTP Project is a collaborative, three-way partnership between the Associate, a university (Knowledge Base) and a company (Business Partner), the aim of which is knowledge transfer between academia and industry. This KTP project is co-funded by Innovate UK and Micromass UK Limited. The Associate is employed by the University of Surrey but based at Micromass UK under the supervision of key company staff; and supported by university academics. The contract of employment is offered on a **33-month (2 years and 9 months)** fixed-term contract.

Micromass UK is part of the US based **Waters Corporation**. It is the world's leading specialty measurement company focused on the application of high-resolution analytical technologies to support its vision of developing innovative solutions aimed at improving human health and longevity.

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Main Responsibilities/Activities

The Associate will be expected to apply their academic knowledge and technical expertise in a real-world context with the aim of making them a technical authority in their subject area. The post holder will develop their understanding of the characteristics of existing technology, using this as a benchmark when validating new technology for Waters.

The Associate will be responsible for applying and validating a new OMICS workflow combined with mass spectrometry (MS) imaging to greatly improve the understanding of disease processes in prostate cancer. It is hoped that this new workflow will drastically improve disease diagnosis and patient treatments and will be readily accessible to both scientists and clinicians. This will require the application of sound academic knowledge and principles in a real-world environment and a scientific assessment of what is realistically achievable within a production environment. The key challenges will be to develop innovative solutions, identify and resolve technical issues and provide technical solutions, drawing on managerial, scientific, and technical skills.

As a project manager, the Associate will 'own' their own project, linked to both a university and a business whose experienced teams will provide full support. The Associate will be responsible for embedding new knowledge within both the business partner and the University of Surrey.

Person Specification

The post holder must:

Be a recently qualified PhD graduate in biochemistry, chemistry, or immunology (individuals who have almost completed a doctoral degree may be appointed).

Have the drive to take responsibility for leading and delivering this strategic and innovative project.

Will have authority over some aspects of project work and must be capable of providing academic judgement, offering original and creative thoughts and be able to interpret and analyse results.

Relationships and Contacts

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This is not an exhaustive list of every relationship the post holder has but is a brief description of those that play an important part in the post holder successfully carrying out the role.

As part of the KTP team at Surrey, the Associate will work closely with both the University Academics and the Business Partner Supervisor and liaise with the University of Surrey's KTP Office. Academic contact is maintained through weekly meetings, online and at the Business Partner.

There will also be the opportunity for the postholder to network with other KTP Associates. The Associate will be expected to meet regularly with professionals from the Business Partner and their client base, who may provide feedback on the scope and progress of the project.

Internal Relationships

- KTP Office
- Business Partner KTP team
- Academic KTP team
- University of Surrey: Students/Staff
- Project Steering Committee
- Other Company Staff

External Relationships

- Innovate UK KTN - KT Adviser
- Other KTP Associates
- Business Partner's Clients

Special Requirements

Based at the Business Partner site, the KTP Associate:

- must be prepared to work outside normal working hours, when required.
- must be willing to undertake further studies, as approximately **10%** of their working hours should be **dedicated to training and development**.
- will be required to travel to the University of Surrey, and occasionally more widely.

As a university employee, all KTP Associates are expected to:

- Undertake such other duties within the scope of the KTP as may be requested by their supervisors or Line Manager.
- Positively support equality of opportunity and equity of treatment to colleagues and students in accordance with the University of Surrey Equal Opportunities policy.
- Follow the Business Partner's policies and working practices at all times to ensure that no disclosure of confidential information results from their actions.
- Follow University/School/Department policies and working practices at all times to ensure that no disclosure of confidential information results from their actions.
- Ensure they are aware of and abide by all relevant University / Business Partner / KTP regulations and policies relevant to their role.
- Help maintain a safe working environment by:

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- Attending training in Health and Safety requirements as necessary, both on appointment and as changes in duties and techniques demand
- Following local codes of safe working practices and the University of Surrey Health and Safety Policy
- To be a team-player, supportive of colleagues and operating in a collegiate manner at all times.

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Addendum

This document provides additional information relating to both specific aspects of the post/faculty and any post specific person specification criteria. The information contained within this document should always be read in conjunction with the accompanying generic Role Profile.

Job Title:

OMICS Research Scientist (KTP Associate, Waters)

Background Information

The working hours, annual leave, and holiday entitlement are those of the Business Partner.

The standard working hours of Micromass UK Ltd are 37 hours per week. Core hours are 9:30-4:00 Mon-Thu and 9:30 – 12:00 on Friday, when employees must be present. Start time can be from 7am to 9:30am and finishing time between 4pm and 7pm (12:00 on Friday) as agreed with the manager. At least 30 minutes daily must be taken as a lunch break.

Annual leave entitlement is 25 working days per year plus public holidays. The holiday year runs from the 1 April to 31 March each year. Typically, there has been a mandatory shut down over the Christmas period, which has involved using some of the holiday entitlement (up to 3 days).

Potential to secure a permanent job with the business at the end of the KTP.

Please also see <https://www.waters.com/> and <https://www.ktp-uk.org/>

Benefits to expect from the University of Surrey include a generous pension, cycle-to-work scheme, season ticket loans. Access to a wide range of courses under the Learning & Development Programme; library access

Benefits to expect from the KTP Programme include opportunity to gain professional qualifications and an accelerated route to Chartered Engineer/Scientist status. Access to academic support and the University's facilities to help deliver the KTP project.

Person Specification

This section describes the sum total of knowledge, experience & competence required by the post holder that is necessary for standard acceptable performance in carrying out this role. This is in addition to the criteria contained within the accompanying generic Role Profile.

| | Essential/ Desirable |
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| 1. A recent PhD in Biochemistry, Chemistry, or Immunology. | E |
| 2. Experience of technical documentation, reporting and presentations. | E |
| 3. High competency level of spoken and written English (i.e. speaking, listening, reading, writing skills) - English Language at minimum IELTS 7.0 (or a degree qualification studied in an English-speaking country, e.g. USA or UK) | E |
| 4. Experience in multi'omic and high dimension / bioinformatic datasets | D |
| 5. Experience of analytical characterisation techniques (e.g. mass spectrometry analysis, Quantum physics). | D |

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| 6. Previous industrial work experience including placement and/or experience of project management. | D |
| 7. Experience in laboratory set-up, synthesis, and engineering design approaches | D |
| 8. Strong interpersonal skills and ability to communicate and work with a diverse range of people | D |
| 9. Ability to focus on the strategic issues without getting lost in the detail, and to express technical jargon in layman's terms | D |
| 10. Enthusiasm for the scientific process, embracing new ideas and concepts whilst bridging the gap between academia and industry, preserving the interests of both. | D |
| 11. Demonstrably pragmatic, efficient, creative, highly proactive and motivated to embed new knowledge into the company. | D |
| Special Requirements | Essential/ Desirable |
| A clear understanding of the KTP programme and of the Business Partner, where you will be based. | E |
| Ability to absorb knowledge and further develop skills during the KTP. | D |
| Competence in MS Office, report-writing and presenting. | D |
| Key Responsibilities | |
| This document is not designed to be a list of all tasks undertaken but an outline record of any faculty/post specific responsibilities (5 to 8 maximum). This should be read in conjunction with those contained within the accompanying generic Role Profile. | |
| <ol style="list-style-type: none"> 1. Lead and deliver an innovative project, bringing the University academics and the Business Partner together. 2. Assist the Business and the University to develop synergetic relationship in validating the use of this new technology into the clinical and translational space. 3. Identify critical factors that promote the development of such a relationship. 4. Apply scientific knowledge to translate technological readouts into impactful clinical outcomes. 5. Produce high-quality outcomes with game-changing, real-world impact. 6. Help grow the Business Partner's technical capability and visibility to Health Providers, Academia, and Industries. 7. Embed new knowledge in both the Business and the University. <p>N.B. The above list is not exhaustive.</p> | |