Role profile

<table>
<thead>
<tr>
<th>Job title</th>
<th>Research Associate/Fellow (Title will be Associate where an appointment is made before PhD is completed)</th>
<th>Job family and level</th>
<th>Research and Teaching Level 4 (Appointment will be Level 4 Career training grade where an appointment is made before PhD has been completed)</th>
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<tbody>
<tr>
<td>School/Department</td>
<td>School of Pharmacy</td>
<td>Location</td>
<td>University Park Campus</td>
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**Purpose of role**
The School of Pharmacy at the University of Nottingham is seeking a highly motivated individual with skills spanning biochemistry, biophysics and cell biology to develop an FP/FRET based assay using recombinant protein for HTP screening and conduct further *in vitro* anti-cancer target validation studies to kick-start an early-stage drug discovery campaign. The project will explore a target in the ubiquitin system conducted in close collaboration with industry. The post holder will be expected to undertake independent research as well as working as part of a team in this translational milestone driven project.

**Main responsibilities**
(Primary accountabilities and responsibilities expected to fulfil the role)

<table>
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<tr>
<th>% time per year</th>
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<tr>
<td>75%</td>
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1. **To plan and conduct research, towards meeting milestones and the grant objectives**
   - Molecular cloning of constructs for protein expression.
   - Protein target expression in *E. coli* or eukaryotic expression system.
   - Fluorescence polarization or Förster resonance energy transfer-based interaction assay development for high-throughput screening.
   - Testing the effect of agents on cancer cell viability and the sensitization to PARP inhibition.

2. **Outputs**
   - To analyse, interpret and critically evaluate data.
   - To prepare internal and external written reports and presentations to the sponsors.
   - To contribute to writing up research findings for publication in leading journals.

3. **Research Team**
   - Work with others in the research team to achieve objectives and make an active contribution to the success of the team.
   - Assist in the supervision of undergraduate and postgraduate students as appropriate.
   - Collaboration with academic colleagues on areas of shared interest.

4. **Laboratory upkeep**

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RT_RPF Band B
- Contribute to organizing research resources and facilities, laboratories, and workshops as appropriate.
- Contribute to the upkeep and maintenance of key laboratory equipment, where appropriate.
# Person specification

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<th>Skills</th>
<th>Essential</th>
<th>Desirable</th>
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<tr>
<td>▪</td>
<td>Cloning and protein expression in <em>E. coli</em></td>
<td>▪ Creative thinking skills</td>
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<tr>
<td>▪</td>
<td>Ability to purify protein on preparative (mg) scales</td>
<td>▪ Ability to design constructs for protein expression</td>
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<td>▪</td>
<td>Fluorescence based assays</td>
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<td>▪</td>
<td>Evidence of sufficient breadth or depth of research methodologies and techniques to work in a cell culture lab</td>
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<td>▪</td>
<td>Aseptic techniques</td>
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<td>▪</td>
<td>Ability to contribute to method improvement.</td>
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<td>▪</td>
<td>Ability to work to deadlines and prioritise tasks</td>
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<td>▪</td>
<td>A strong commitment to interdisciplinary research and integration of protein production, biophysical and cell culture methods</td>
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<td>▪</td>
<td>Developing research skills, with the ability to creatively apply relevant research approaches, models, techniques and methods</td>
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<td>▪</td>
<td>Excellent oral and written communication skills including the ability to communicate complex information with clarity and write to a publishable standard.</td>
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<tr>
<td>▪</td>
<td>Strong analytical skills including the ability to analyse and illuminate data, interpret assay results and reports, evaluate and criticise texts and bring new insights</td>
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<td>▪</td>
<td>Excellent problem solving, IT and organisational skills including the effective deployment of resources</td>
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<td>▪</td>
<td>Ability to build effective relationships as part of a team and collaborate with others</td>
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- Flexible, proactive and dedicated approach
- Integrity

### Knowledge and experience

- Demonstrated capabilities in protein expression and purification at large-scale
- Standard molecular biology and eukaryotic cell culture techniques
- Research experience in conducting fluorescence based *in vitro* interaction assays with purified protein
- Ability to develop and apply new concepts and methods.
- Track record in academic publication
- Experience of cell viability and/or cell cycle progression assays
- Flow cytometry
- Supervising or helping with the supervision of research students.

### Qualifications, certification and training (relevant to role)

- BSc degree in biological science/biochemistry or a related discipline
- PhD or equivalent (pending or awarded) in a biochemistry or cell biology discipline relevant to the project

As part of this, we welcome a diverse population to join our work force and therefore encourage applicants from all communities, particularly those whose protected characteristics under the Equality Act 2010, are not well-represented in our current staff body.

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**
Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.

**Taking ownership**
Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations.

**Forward thinking**
Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.

**Professional pride**
Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.

**Always inclusive**
Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.

Key relationships with others

![Diagram showing Key stakeholder relationships with Line manager, Role holder, Associate Professor, Research Associate/Fellow, Colleagues, Students]