Job Title: Research Associate / Fellow

School/Department: Psychology

Job Family and Level: Research and Teaching Level 4, Training Grade Level 4

Contract Status: This post will be offered on a fixed-term contract until 21 December 2020.

Hours of Work: Full-time (36.25 hours per week)

Location: University Park Campus

Reporting to: Prof Eamonn Ferguson, Dr Richard James

Purpose of the New Role:

The purpose of this role will be to support the principal investigators in delivery of the psychology research programme of the Arthritis Research UK Pain Centre.

The Research Associate/Fellow will be part of a team, associated with the Pain Centre Versus Arthritis, but based in Psychology, and be responsible for identifying the psychological phenotypes associated pain (latent class and taxometric modelling) as well differential pain trajectories (using latent growth models) and the mechanisms linked to these phenotypes and trajectories. A large data set of questionnaire responses has been collected. The person appointed will be responsible for conducting the psychometric analysis (factor analysis, latent class and growth models) of these datasets and preparing papers for publication.

### Main Responsibilities

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<th>% time per year</th>
<th>Main Responsibilities</th>
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<tr>
<td>75%</td>
<td>1. To analyse using factor analytic procedures, latent class models and latent growth models of a large previously collected cross-sectional and longitudinal data set, complete a systematic review/meta-analysis of ethnicity and pain and explore the effects of ethnicity on reported pain.</td>
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<td>20%</td>
<td>2. To contribute to writing up research findings for publication in leading journals.</td>
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<td>5%</td>
<td>3. To plan and manage own research activity and resolve problems, if required, in meeting own/team research objectives and deadlines in collaboration with others.</td>
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### Knowledge, Skills, Qualifications & Experience

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<th>Essential</th>
<th>Desirable</th>
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<td><strong>Qualifications/Education</strong></td>
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<tr>
<td>• PhD (or equivalent) (or close to completion) in a relevant subject area.</td>
<td>• Ability to assess and organise resource requirements and deploy effectively.</td>
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<tr>
<td>• BSc (or equivalent) in psychology or an equivalent relevant subject.</td>
<td>• It would be desirable if these applicant was able to programme and use MPlus and R, as well as SPSS.</td>
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<th><strong>Skills/Training</strong></th>
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<td>• Excellent oral and written communication skills, including the ability to communicate with clarity on complex information.</td>
<td>• Ability to assess and organise resource requirements and deploy effectively.</td>
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<td>• Demonstrated ability and skills with advanced psychometric procedures. Specifically latent class modelling, and</td>
<td>• It would be desirable if these applicant was able to programme and use MPlus and R, as well as SPSS.</td>
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**latent growth modelling as well as regression modelling in MPlus or R**, and able to use SPSS or Stata for advanced statistical analyses.

- High analytical ability to analyse data, evaluate previous research and bring new insights.
- Developing research skills, with the ability to creatively apply relevant research approaches, models, techniques and methods.
- Ability to build relationships and collaborate with others, internally and externally.
- Ability to work as part of a large team (preferably in the NHS)

| Experience | • Evidence of sufficient breadth or depth of experience with statistical methods to analyse a large complex data set.  
|           | • Experience of working with large cross-section data sets (UK cohort and population surveys) and longitudinal panel data and applying at least two of the techniques (factor analytic, latent class modelling, and latent growth modelling) to such data sets.  
|           | • Detail any published refereed journal articles and conference presentations you have been author on | • Experience of developing new approaches, models, techniques or methods in research area. |