# JOB DESCRIPTION

<table>
<thead>
<tr>
<th><strong>Job Title:</strong></th>
<th>Post Doctoral Research Associate (PDRA)</th>
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<tbody>
<tr>
<td><strong>Department / Unit:</strong></td>
<td>Computer Science</td>
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<tr>
<td><strong>Job type</strong></td>
<td>Professional Services</td>
</tr>
<tr>
<td><strong>Grade:</strong></td>
<td>RHUL 7</td>
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<tr>
<td><strong>Accountable to:</strong></td>
<td>Head of Department</td>
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<tr>
<td><strong>Accountable for:</strong></td>
<td>NA</td>
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## Purpose of the Post

Develop new techniques (algorithms and lower bounds) with the aim of identifying the precise cut-off between tractable and intractable approximations of Nash equilibria.

## Key Tasks

- Using initiative and creativity to identify areas for research, developing new research methods and extending the research portfolio.

- Identify any practical and technical issues that require to be resolved and suggest solutions.

- Identify any specific limitations of specific techniques.

- Pilot, refine and optimise mathematical and computational techniques under the supervision of the PI.

- Take a leading role in overcoming methodological problems that arise during the project lifespan, and keep the PI up to date with the project’s progress.

- Record, analyse and write up results, maintaining a permanent record of the methodologies.

- Compose research manuscripts for peer-reviewed publication (both conferences and journals).

- Prepare and present findings of research activity to colleagues and at scientific meetings.
- Undergo continued personal professional development

<table>
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<tr>
<th>Other Duties</th>
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<tr>
<td>The post holder will be expected to undertake other duties as appropriate and as requested by their manager.</td>
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The post holder may be required to work at any of the locations at which the business of Royal Holloway is conducted.

<table>
<thead>
<tr>
<th>Internal and external relationships</th>
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<tbody>
<tr>
<td>The following list is not exhaustive but the post holder will be required to liaise with: PhD Students, UG Students, other members of staff within the school/department and College, academics in other institutions and, where relevant, industrial or professional contacts</td>
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### Job Title: Research Fellow

<table>
<thead>
<tr>
<th>Knowledge, Education, Qualifications and Training</th>
<th>Essential</th>
<th>Desirable</th>
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<tbody>
<tr>
<td>PhD in relevant subject area (or near completion of)</td>
<td>X</td>
<td></td>
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<tr>
<td>Proven knowledge of research techniques and methodologies</td>
<td>X</td>
<td></td>
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<tr>
<td>Demonstrable comprehensive knowledge in the subject area</td>
<td>X</td>
<td></td>
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<tr>
<td>Experience of working in industry in a research capacity</td>
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<td>X</td>
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<thead>
<tr>
<th>Skills and/or Abilities</th>
<th>Essential</th>
<th>Desirable</th>
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<tbody>
<tr>
<td>Ability to teach/demonstrate research methods and techniques</td>
<td>X</td>
<td></td>
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<tr>
<td>Excellent communication skills</td>
<td>X</td>
<td></td>
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<tr>
<td>Proven ability to analyse and write up data</td>
<td>X</td>
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<tr>
<td>Ability to present complex information effectively to a range of audiences</td>
<td>X</td>
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<tr>
<td>Use of webpage software to create engaging copy and images</td>
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<td>X</td>
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<thead>
<tr>
<th>Experience</th>
<th>Essential</th>
<th>Desirable</th>
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<tbody>
<tr>
<td>Evidence of a publication record in good quality publications</td>
<td>X</td>
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<tr>
<td>Experience of supervising undergraduate students</td>
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<td>X</td>
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<tr>
<td>Evidence of contributing to research bids</td>
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<tr>
<td>Practical experience of applying specialist skills and techniques required for the role</td>
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