**Job Title:** Research Assistant  
**Department / Unit:** Department of Computer Science  
**Job Type:** Research Assistant  
**Grade:** 7  
**Accountable to:** Prof Gregory Gutin  
**Accountable for:** Research on project “Analyzing Security-aware Workflows” funded by Leverhulme Trust  

**Purpose of the Post**
Design and analysis of algorithms for solving security-aware workflow problems.

**Key Tasks**
- To study algorithms and complexity of the Workflow Satisfiability Problem (WSP) enhanced by elements encountered in real-world applications.
- To study algorithms and complexity of the Authorization Policy Existence Problem (APEP), which generalizes the WSP.
- If required, implement algorithms for the WSP and APEP.
- To prepare and submit papers on the topic of the project.

**Other Duties**
The duties listed are not exhaustive and may be varied from time to time as dictated by the changing needs of the College. The post holder will be expected to undertake other duties as appropriate and as requested by his/her manager.

The post holder may be required to work at any of the locations at which the business of Royal Holloway is conducted.
Internal and external relationships

The following list is not exhaustive but the post holder will be required to liaise with:

Professors David Cohen and Jason Crampton.