JOB DESCRIPTION

Job Title:	Post-doctoral Research Assistant in Cryptography
Department / Unit:	Information Security Group
Job type	Research
Grade:	RHUL 7
Accountable to:	Chair of Information Security
Accountable for:	-

Purpose of the Post

Together with Dr. Cong Ling (Imperial), Prof. Martin Albrecht received funding for "Bridging the Gap between Lattice-based Cryptography and Coding Theory" inspired by a joint seminar series co-organised by the two grant holders. The project aims to apply techniques from lattice-coding to cryptography to produce more efficient constructions and cryptanalytical attacks.

To carry research activity in the field of cryptography in collaboration with the research group. Specialised knowledge is required to proof theorems or find attacks.

Key Tasks

- Conducting research in cryptography in collaboration with Prof. Albrecht and the other team members;
- Writing papers for peer-reviewed venues, informal reports and presentations at scientific meetings;
- Attending conferences, workshops, and summer schools to disseminate the research;
- Assisting in arranging project meetings and workshops
- Using initiative and creativity to identify areas for research, developing new research ideas and extending the research portfolio
- Identify any practical and technical issues that require to be resolved and suggest solutions
- Undergo continued personal professional development

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.

Internal and external relationships

The following list is not exhaustive but the post holder will be required to liaise with:
- Dr. Cong Ling at Imperial
- ISG staff and students