

Appendix

There may be subsets of the generic job described above which require additional technical skills. This appendix to the generic job description can be developed to cover such situations.

Division	Research and Development
Reports to (title)	Director, Research and Development
Location base	Salford, London, Cardiff and Glasgow

Additional job specific responsibilities and accountabilities
<p>As Head of Applied Research - Automation, you will provide leadership, management, and execution in the delivery of initiatives aiming to drive automation efficiency and to enable transformation of BBC's operating model. Working closely with a diverse set of cross-functional stakeholders and teams, implementing research agenda that automates major news and media processes, experiences and industry exchange. Through technology and data-driven processes, enable the BBC to shift towards new and improved ways of working, and fundamentally alter the way we go about delivering our audience and public service value. Here are some of the ways in which you'll achieve impact:</p> <ul style="list-style-type: none">● Build and own the overall automation vision and strategy across all applied research areas to advance the implementation of algorithmic methods at BBC and unlock business impact.● Lead research that enables learning the semantics of data (images, video, text, audio, speech and other modalities) and devise better data-driven models of engagement.● Lead a systematic approach to technology/tool selection around automation processes, including a strong focus on implementing algorithmic automation solutions where viable.● Align activities across BBC and industry where synergies enable increased efficiency to deliver department objectives, solve problems and demonstrate research solutions and prototypes.● Transform research prototypes to products in collaboration with research and engineering teams and demonstrate quantifiable benefits.● Explore and create conditions for automated content creation, distribution and experiences which will play a role in creating types of content that we are not using now.

Key skills and experience:

- You have experience with leading applied research teams with a responsibility for making business impact and driving innovation.
- You have a strong research background, and have deep expertise in one or more fundamental areas: artificial intelligence, machine learning, computational statistics, and applied mathematics, particularly including areas such as deep learning, graphical models, reinforcement learning, computer perception, natural language processing, RecSys and data representation.
- Experience with one or more: Deep Learning, MLOps, federated learning, differential privacy, distributed ledger or cryptography.
- Track record of innovation and thinking big as evidenced by products conceived and launched, research publications and/or patents.
- Degree, MS or PhD in Computer Science with a focus on machine learning, mathematics or related quantitative field or relevant work experience. Strong background in software engineering.