

Research Fellow - 57665

School of Physics and Astronomy within the College of Engineering and Physical Sciences

Job Summary

To create and contribute to the creation of knowledge by undertaking a range of activities as specified in the ERC Starting Grant project ExclusiveHiggs: “Search for New Physics in First and Second Generation Quark Yukawa Couplings through Rare Exclusive Decays of the Observed Higgs Boson”

Main Duties

- Develop research objectives and proposals for own or joint research, with assistance of a mentor if required
- Contribute to writing bids for research funding
- Analyse and interpret data
- Apply knowledge in a way which develops new intellectual understanding
- Disseminate research findings for publication, research seminars etc
- Supervise students on research related work and provide guidance to PhD students where appropriate to the discipline
- Contribute to developing new models, techniques and methods
- Undertake management/administration arising from research
- Contribute to Departmental/School research-related activities and research-related administration
- Contribute to enterprise, business development and/or public engagement activities of manifest benefit to the College and the University, often under supervision of a project leader
- Collect research data; this may be through a variety of research methods, such as scientific experimentation, literature reviews, and research interviews
- Present research outputs, including drafting academic publications or parts thereof, for example at seminars and as posters
- Provide guidance, as required, to support staff and any students who may be assisting with the research
- Deal with problems that may affect the achievement of research objectives and deadlines

We welcome flexible and part-time working, offer a generous maternity package (subject to qualifying periods of service) and have on-campus childcare facilities

Person Specification

- First degree in physics and a Ph.D. in experimental particle physics
- High level analytical capability
- Ability to communicate complex information clearly
- Fluency in relevant models, techniques or methods and ability to contribute to developing new ones
- Ability to assess resource requirements and use resources effectively
- Understanding of and ability to contribute to broader management/administration processes

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