

THE UNIVERSITY OF MANCHESTER
PARTICULARS OF APPOINTMENT
FACULTY OF SCIENCE & ENGINEERING
SCHOOL OF NATURAL SCIENCES
5827 PARTICLE PHYSICS GROUP

JOB TITLE: RESEARCH ASSOCIATE IN QCD PHENOMENOLOGY

VACANCY REF: SAE-023950

Salary: £36,024-£44,263 per annum depending on experience
Hours: Full Time (1 FTE)
Duration: Fixed Term for 24 Months
Location: Oxford Road

Enquiries about the vacancy, shortlisting and interviews:

Name: Mrinal Dasgupta

Email: mrinal.dasgupta@manchester.ac.uk

Overall Purpose of the Job:

To undertake postdoctoral research in the area of QCD phenomenology

Key duties, responsibilities and accountabilities:

The range of duties and responsibilities set out below is indicative and not prescriptive. The post-holder will be expected to show flexibility and adaptability in meeting the needs of the group.

The responsibilities of the post will include:

- undertaking research in fundamental physics in the area of QCD phenomenology;
- working independently;
- showing awareness of research interests of our group and collaborating with group members wherever appropriate;
- contributing to the dissemination of the research results through articles, reports, etc. in high profile scientific journals;
- attendance at conferences and workshops and, if appropriate, presentation of research findings at these;
- informal contribution to supervision of research students if appropriate;

- contributing to the undergraduate teaching programme of the School of Physics and Astronomy, up to a maximum of 48 contact hours per year;
- participation in group meetings and seminars

Person Specification

Essential Knowledge, Skills and Experience:

The person appointed will:

- have, or be about to obtain, a PhD (or equivalent) in theoretical particle physics or a related discipline.
- have strong research interests in the area of QCD phenomenology.
- Have a strong research record commensurate with career stage
- be able to demonstrate the ability to carry out research at a high level.
- be able to demonstrate the potential to work independently.
- be able to demonstrate the ability to work collaboratively as a member of a team.
- have the potential to, or have evidence of, the ability to contribute to research papers in the field.
- Have a strong personal commitment to equality, diversity, inclusion and accessibility.

Desirable Knowledge, Skills, Experience and Qualifications:

In addition to the above essential skills, it would be advantageous for the person appointed to have the ability to present their research findings orally in conferences or workshops and/or already have the experience of doing so.

Additional Information:

The Manchester QCD group is part of the Particle Physics Research Group, which includes theorists and experimenters who play leading roles in the ATLAS and LHCb experiments at the LHC collider, and in several neutrino experiments. The theorists are Mrinal Dasgupta, Jeff Forshaw, Jonathan Gaunt, Mike Seymour, (with research interests mainly in QCD), Eleni Vryonidou (QCD & BSM phenomenology), Richard Battye (Cosmology), Apostolos Pilaftsis (mainly BSM phenomenology), Peter Millington (QFT & particle cosmology) and Stefan Schacht (flavour physics). The group also has 10 postdocs and 15 PhD students.