

Subject: Postdoc Position, Heriot-Watt University,
Edinburgh

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A post-doc position is available within the School of
Engineering and
Physical Sciences at Heriot-Watt University, Edinburgh.

The successful
candidate will be part of the Particle Technology and
Complex Fluids
research group. The group works on addressing key
gaps in the
scientific understanding and the engineering application
of

particulate materials. We work at the development and
formulation of

material (constitutive) laws describing the complex
phenomena

occurring at various length and time scales. Our work is
devoted to

producing user-inspired research through rigorous
mathematical

modelling, simulation and experimental validation

(rheological measurements).

The postdoc work will be concerned with the theoretical development of constitutive equations for the bulk properties of the particulate phase. The specific work will involve developing appropriate mathematical scaling procedures (i.e. averaging and homogenisation) which will permit the development of laws describing the behaviour of particulate flow. The work will require a sound mathematical expertise and a background in physics to deal with particle-particle and particle-fluid interactions. The work will be part of a major programme linked to Professor Ocone (r.ocone@hw.ac.uk) EPSRC Established Career Fellowship. Further details can be found at:

<https://www.hw.ac.uk/about/careers/jobs/>

[job_SVJDNjcOOA.htm](#)