BioSS seeks a scientist with a strong quantitative background, ideally with experience of Bayesian and computationally intensive methods to undertake methodological research in inference for stochastic process models and in the application of resulting methods in collaboration with biological scientists. Key areas of application are population and spatial models in epidemiology and ecology. The aim is to develop and apply computationally intensive modelling and analysis methods to address scientific and societal challenges by exploiting the potential of existing and emerging types of data e.g. in genomics and meta-genomics.

This work will contribute to disease outbreak preparedness as part of EPIC, the Scottish Government’s Centre of Expertise in animal disease of which BioSS is a founding member. It will also contribute to the Scottish Government’s Environment, Agriculture and Food Strategic Research Programme and exploit opportunities for research and innovation funding from other sources including UKRI.

BioSS offers a stimulating working environment located in the James Clerk Maxwell Building at the University of Edinburgh, King’s Buildings campus and extensive opportunities to develop collaborations with scientists in both the research institute and university sectors. In particular, this post will devote a day a week to interacting with scientists based at the Roslin Institute to develop collaborative links e.g. in areas related to host and pathogen genetics and disease.

Applicants should have a very strong numerical and computational background and:

- a research track record in methods of inference for stochastic process models including Bayesian and computationally intensive methods;
- evidence of, or demonstrable interest in, applications of these methods in epidemiology, ecology or other biological research;
- strong programming skills; and
- excellent communication and interpersonal skills.

Further information, including how to apply, is available on the BioSS website at http://www.bioss.ac.uk/vacancies.html. Closing date: Friday 10th January 2019. Interview date to be confirmed but likely to be in week beginning 20th January 2019. Post Ref – BioSS 04-19. Potential applicants may contact Professor Glenn Marion (glenn.marion@bioss.ac.uk, tel +44 (0) 131 650 4898) to discuss the position.

BioSS is formally part of the James Hutton Institute, a Scottish charity No. SC041796 and an equal opportunities employer.