Postdoc, Monash University, Melbourne

Postdoctoral Position: Experienced ecologist specialising in life history theory

Professor Dustin Marshall is seeking an experienced Ecologist, specialising in life history theory and with strong analytical skills, to explore patterns in life histories. This position will be with the Centre for Geometric Biology (www.cgb.org.au) within the School of Biological Sciences at Monash University in Melbourne, Australia.

As the successful candidate, you will be expected to use existing datasets to investigate evolutionary patterns both within and across species, but more importantly demonstrate a strong conceptual understanding of relevant life history theory and have a demonstrated track record in producing high quality publications.

The Centre for Geometric Biology is developing and testing a new theory for how and why organisms grow. Our particular focus is on how the net flux of energy (the energy acquired through food, photosynthesis, or chemosynthesis minus the energy lost to metabolism) changes with size, whether it be cell size or total body size. We are using a range of approaches and systems to test these predictions. For example we work on yeast, bacteria, phytoplankton and animals. We use artificial selection, experimental evolution, ecological experiments, comparative analyses and theoretical models, as well as different types of bioenergetics measurements to explore a wide range of specific questions about organismal growth.

For more information about the Centre please visit our website https://cgb.org.au/


Enquiries

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