Industry Project Details

*SFRA Project application details can be obtained from:* https://www.sfrascottishfinancialriskacademy.com/project-placements

Company Details

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| Company Name | GeoCapita |

Proposal Details

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| Proposed Project Title | Modelling the economic and company level financial impacts of extreme weather events. |
| Brief Summary | The cost of extreme weather events are critical in macroeconomic planning, in several financial markets and in environmental markets. Accurately forecasting these is thus of great importance at both an economic and company level.Our project proposal would be to produce a simple financial integrated model of financial impacts on companies' costs, profits/losses, earnings, EPS, enterprise value caused by extreme weather events such as wildfires, floods, hurricanes, storms, tides.The student will access historical loss data from available data.The expectation of this is that this modelling be achieved through a background econometric model feeding results into a simple excel spreadsheet with a MCS macro add-in probability analysis.Project References:[Why do carbon prices and price volatility change?](https://www.sciencedirect.com/science/article/pii/S0378426615003040) [A stock market trading system based on foreign and domestic information](https://www.sciencedirect.com/science/article/pii/S095741741830513X) [OTC trades and liquidity in the European carbon market more than meets the eye](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=6D-hF68AAAAJ&citation_for_view=6D-hF68AAAAJ:MXK_kJrjxJIC) [Liquidity and resolution of uncertainty in the European carbon futures market](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=6D-hF68AAAAJ&citation_for_view=6D-hF68AAAAJ:qjMakFHDy7sC) |
| Proposed Format of Placement | Microsoft Teams |
| Background Knowledge, Software and Packages | The applicant should have a strong working knowledge of financial mathematics. |

To apply for this project please submit your covering letter and CV (DOCX, PDF formats accepted) to stephen.marshall@hw.ac.uk. The deadline for submitting applications is Friday 7th March 2025.