



RESEARCH & INNOVATION SCOTLAND *Case Study*

MASTS PhD Studentships Co-funded with Innovation Centres

Members involved: MASTS, SAIC, IBioIC, The Data Lab and CXC



The co-funding of studentships has allowed MASTS to develop good relationships with a number of the Innovation Centres. These studentships are spread across a number of our partner institutions and have general share supervision across institutions to further develop collaboration. The studentships (past and present) include:

- **Four studentships with the Scottish Aquaculture Innovation Centre (SAIC)**
 - Dynamic spatial modelling and forecasting of sea lice abundances – based at SAMS and supervised by Dr Thomas Adams, this studentship is also supported by Datalab (ongoing)
 - Spat mortality in Farmed Scottish Blue Mussels - based at Stirling University and supervised by Dr Stefano Carboni (ongoing)
 - Photoperiod and immune function, how critical life cycle events in salmon impact on disease response and post smolt performance – based at Aberdeen University and supervised by Prof Sam Martin (ongoing)
 - Environmental DNA for low-cost monitoring of disease in Salmonid aquaculture – based at Glasgow University and supervised by Dr Martin Llewellyn (ongoing)
- **Four studentships with Climate X Change (CXC)**
 - A 100 year record of changing toxic algae in Scottish coastal waters related to change in land use and temperature – based at SAMS and supervised by Prof William Austin (ongoing)
 - Impacts of basin scale forcing on the circulation of the Faroe Shetland Channel – based at SAMS and supervised by Prof Stuart Cunningham (completed)
 - Climate change impacts and adaptation in island communities – based at University of St Andrews and supervised by Dr Tim Stojanovic (completed)
 - Palaeoenvironmental reconstruction of submerged island landscapes and communities - based at University of St Andrews and supervised by Dr Richard Bates (completed)



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- **Two studentships with The Data Lab**
 - Automated classification of ocean colour remote sensing for environmental monitoring and legislative compliance applications – based at Strathclyde University and supervised by Dr David McKee (ongoing)
 - Data driven techniques for interaction with autonomous vehicles – based at Heriot-Watt University and supervised by Dr Helen Hastie (ongoing)

- **Two studentships with IBioIC**
 - Establishment of red seaweed mariculture – based at SAMS and supervised by Prof Michelle Stanley (completed)
 - Sustainable production of marine cyanobacterial products (sustainable C Products): discovery, scale-up and maintenance – based at University of St Andrews and supervised by Dr Rebecca Goss (ongoing)