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| Last updated: | <date> |

**JOB DESCRIPTION**

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| Post title: | **Postdoctoral Research Fellow in Physical Oceanography** | | |
| Academic Unit/Service: | Ocean and Earth Science | | |
| Faculty: | Faculty of Environmental and Life Sciences |  |  |
| Career pathway: | ERE\* | Level: | 4 |
| \*ERE category: | Research pathway | | |
| Posts responsible to: | Alberto Naveira Garabato | | |
| Posts responsible for: | N/A | | |
| Post base: | Office-based | | |

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| Job purpose |
| To undertake analysis of oceanographic measurements of the Amundsen Sea, Antarctica, as part of the ‘Drivers of Oceanic Change in the Amundsen Sea’ (DeCAdeS) consortium, in order to determine the dynamical controls of oceanic heat supply to the West Antarctic Ice Sheet in the Amundsen Sea. |

| Key accountabilities/primary responsibilities | | % Time |
| --- | --- | --- |
|  | To write papers on the results of the analysis of oceanographic observations from the Amundsen Sea, and to present those results at appropriate international meetings, for the DeCAdeS consortium; to understand quantitatively the mechanisms via which ocean dynamics regulate the heat supply to the West Antarctic Ice Sheet. | 95% |
|  | Any other duties as allocated by the line manager following consultation with the post holder. | 5% |

| Internal and external relationships |
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| * Principal Investigator (PI, Alberto Naveira Garabato) and Co-Investigator (Co-I, Alessandro Silvano): the PDRA will receive guidance from the PI and Co-I on their research, and collaborate with the PI and Co-I on the investigation. * Collaborators at other institutions (Northumbria University, Leeds University and British Antarctic Survey, Scripps Institution of Oceanography, amongst others): the PDRA will collaborate with these on different elements of their research, under the guidance of the PI and Co-I. |

| Special Requirements |
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| To be available to participate in fieldwork as required by the specified research project.  To attend national and international conferences for the purpose of disseminating research results.  *Applications for Research Fellow positions will be considered from candidates who are working towards or nearing completion of a relevant PhD qualification. The title of Research Fellow will be applied upon successful completion of the PhD. Prior to the qualification being awarded the title of* ***Senior Research Assistant*** *will be given.* |

**PERSON SPECIFICATION**

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| Criteria | Essential | Desirable | How to be assessed |
| Qualifications, knowledge and experience | PhD or equivalent professional qualifications and experience in Physical Oceanography (or related field)  Experience in the analysis of diverse physical oceanographic data sets (e.g., hydrography, turbulence microstructure, satellite altimetry, float data, mooring data, numerical model output)  Experience with quantitative analytical methods commonly used in climate science (e.g., inverse modelling, time series analysis, statistics) |  | CV  CV, references and interview  CV, references and interview |
| Planning and organising | Ability to manage own work schedule |  | References and interview |
| Problem solving and initiative | Ability to confront scientific and computational challenges, and to seek solutions within available resources |  | References and interview |
| Management and teamwork | Ability to work as part of a team: both the NOCS group, and the multi-institutional project teams |  | References and interview |
| Communicating and influencing | Ability to present results clearly to audience of peers |  | References and interview |
| Other skills and behaviours | Understanding of relevant Health & Safety issues  Positive attitude to colleagues and students |  | References and interview  References and interview |
| Special requirements | Ability to attend national and international conferences to present research results |  | Interview |

**JOB HAZARD ANALYSIS**

**Is this an office-based post?**

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| Yes | If this post is an office-based job with routine office hazards (eg: use of VDU), no further information needs to be supplied. Do not complete the section below. |
| No | If this post is not office-based or has some hazards other than routine office (eg: more than use of VDU) please complete the analysis below.  Hiring managers are asked to complete this section as accurately as possible to ensure the safety of the post-holder. |

## - HR will send a full PEHQ to all applicants for this position. Please note, if full health clearance is required for a role, this will apply to all individuals, including existing members of staff.

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| **ENVIRONMENTAL EXPOSURES** | **Occasionally**  (<30% of time) | **Frequently**  (30-60% of time) | **Constantly**  (> 60% of time) |
| Outside work | X |  |  |
| Extremes of temperature (eg: fridge/ furnace) |  |  |  |
| ## Potential for exposure to body fluids |  |  |  |
| ## Noise (greater than 80 dba - 8 hrs twa) |  |  |  |
| ## Exposure to hazardous substances (eg: solvents, liquids, dust, fumes, biohazards). Specify below: |  |  |  |
| Frequent hand washing |  |  |  |
| Ionising radiation |  |  |  |
| **EQUIPMENT/TOOLS/MACHINES USED** | | | |
| ## Food handling |  |  |  |
| ## Driving university vehicles(eg: car/van/LGV/PCV) |  |  |  |
| ## Use of latex gloves (prohibited unless specific clinical necessity) |  |  |  |
| ## Vibrating tools (eg: strimmers, hammer drill, lawnmowers) |  |  |  |
| **PHYSICAL ABILITIES** | | | |
| Load manual handling |  |  |  |
| Repetitive crouching/kneeling/stooping |  |  |  |
| Repetitive pulling/pushing |  |  |  |
| Repetitive lifting |  |  |  |
| Standing for prolonged periods |  |  |  |
| Repetitive climbing (ie: steps, stools, ladders, stairs) |  |  |  |
| Fine motor grips (eg: pipetting) |  |  |  |
| Gross motor grips |  |  |  |
| Repetitive reaching below shoulder height |  |  |  |
| Repetitive reaching at shoulder height |  |  |  |
| Repetitive reaching above shoulder height |  |  |  |
| **PSYCHOSOCIAL ISSUES** | | | |
| Face to face contact with public |  |  |  |
| Lone working |  |  |  |
| ## Shift work/night work/on call duties | X |  |  |