# Job Description – CFD Developer, Engineering

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| Main purpose |
| Apply your technical skill and knowledge in fluid mechanics and CFD to work in our CFD team on commercial hydraulics/maritime engineering and research projects |

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| Main duties |
| * Contribute to development of new CFD techniques based on company’s R&D objectives and needs.
* Contribute to development of advanced post-processing and visualisation techniques.
* Be involved in the successful technical and commercial delivery of CFD related projects ensuring that the quality and planning are met according to the clients expectations within budget and on time
* Follow current trends in modelling science and provide input to HR Wallingford investment in staff, infrastructure and research so that HR Wallingford remains at the forefront of CFD modelling applications for water related topics
* Undertake overseas and national travel as and when required for projects
* Provide mentorship and coaching to enable junior staff to progress both their technical expertise and their professional development, supporting learning and development
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| Job specific duties |
| * Participate in development and delivery of new CFD solvers and coupled CFD and multi-physics computational technologies.
* Provide technical input on day to day activities relating CFD modelling
* Participate in research activities relating to CFD modelling, and provide input to research proposals for internal and external funding
* Support multi-disciplinary projects with modelling applications (CFD, physical models, engineering design)
* Participate in creating well-structured and commercially attractive proposal documents
* Participate in delivering new and existing strong client relationships in marine renewables or hydraulics matching our business plan and strategic goals
* Undertake overseas and national travel as and when required for projects

Subject to your attributes and experience you will also:* Continue to publish conference and journal papers on CFD modelling aligned with HR Wallingford’s research strategy
* Utilise your marine renewables or maritime experience to expand HR Wallingford’s CFD capability and strengthen our presence in these markets
* Participate in creating well-structured and commercially attractive proposal documents
* Participate in delivering new and existing strong client relationships in marine renewables or hydraulics matching our business plan and strategic goals
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| Current job holder | vacant |
| Group | Engineering |
| Reports to | CFD Lead |
| Date agreed | Click here to enter text. |