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Job Title: Mechanical Design Engineer
Start date: Asap
Location: Edinburgh
Salary: Depends on experience

For too long, the shipping industry has been the dirty secret of global commerce. We want to change that.

Drawing on experience from America's Cup yacht design, our Smart Wind Assisted Propulsion (SWAP) technology promises to substantially reduce CO₂ emissions and fuel costs for large vessels. We are looking for a Mechanical Design Engineer to help make this happen.

Job Description

Working as part of an innovative team, you will be responsible for the primary structure of the device, looking at mechanical design, component and assembly design, validation and structural analysis. You will also be liaising with suppliers for manufacturing and testing.

Essential Skills and Experience

- Bachelor's degree or higher in Mechanical Engineering, or closely related subject
- At least three years' professional experience in structural design and analysis, including structural steelwork and composites
- Ability to produce manufacturing drawings and work with manufacturers to deliver a cost-effective structure that meets all functional and certification requirements
- Design according specific requirements including interpretation of applicable standards
- Experience in Design for Manufacturing
- Excellent written and oral English
- Ability to integrate into a dynamically evolving team, using initiative to solve problems, enhance our product and accelerate our route to market
- Ability to manage workload to ensure that tasks are completed to time, cost and quality
- Ability to engage with potential customers to understand their requirements and plan the integration of the device onto existing vessels

Desirable Skills and Experience

- Marine / offshore engineering experience
- Design of mechanisms for use in a marine environment
- Practical experience of instrumentation and testing of large structures
- Experience of working with Classification Societies on the certification of maritime structures
- Understanding of aerodynamics, Computational Fluid Dynamics (CFD) and wind tunnel testing
- Programming in Python and Matlab/Octave
- Experience of using Midas-NFX, SkyCiv and Rhinoceros 3D / Grasshopper
- Experience in Electrical Control and Instrumentation, particularly in the marine environment

To apply, please send an introduction letter and your CV to Dr Donald MacVicar donald@smar-azure.com. Closing date is Sunday, the 18th of August. Successful candidates will be informed by close of business, Friday the 23rd of August.