

## Mass Properties Specialist - Naval Architecture

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Company: Matchtech

Location: United Kingdom

Category: business-and-financial-operations

### Job summary

Support the Mass Properties Lead to aggregate weight and centroid reports and present the status to the Chief Naval Architect + design maturity of multiple mechanical and electronic systems

### Key skills required for this role

Aggregate weight and Centroid reports and maintain the list of weight risk

### Important

Aggregate weight and Centroid reports and maintain the list of weight risk

### Job description

**Job Title:** Mass Properties Specialist

**Location:** Manchester, Bristol, Glasgow, Portsmouth, Barrow-in-Furness, Frimley or Weymouth. We offer a range of hybrid and flexible working arrangements (Hybrid working arrangements and Part Time considered) - please speak to your recruiter about the options for this particular role.

**Salary:** Competitive

### What you'll be doing:

- Collate mass property data for equipment and systems to deliver weight and centroid control

on multi billion pound submarine programmes

- Support the Mass Properties Lead to aggregate weight and centroid reports and present the status to the Chief Naval Architect
- Collaborate with system design engineers to accurately estimate mass, centroid and design maturity of multiple mechanical and electronic systems
- Maintain a comprehensive database of parts mass properties
- Provide input to and lead weight saving strategies and maintain the list of weight risk and opportunities for each discipline area
- Interrogate CAD models to determine estimates for mass properties with associated uncertainties
- Utilise statistical analysis to provide a whole boat picture of weight risk and opportunity to senior leaders, stakeholders and our customers

### **Your skills and experiences:**

Essential:

- Qualified in STEM subject or extensive experience
- CEng/IEng status or a clear pathway to achieving professional recognition
- Ability to work independently and as part of a team
- IT literate in Microsoft packages, experienced knowledge in Excel

Desirable:

- Experience working with large, complex Electrical or Mechanical systems
- Data analysis experience including interpretation, visualisation, manipulation and presentation
- Experience of using CAD packages and programmes

### **Benefits:**

You'll receive benefits including a competitive pension scheme, enhanced annual leave allowance and a Company contributed Share Incentive Plan. You'll also have access to additional benefits such as flexible working, an employee assistance programme, Cycle2work and employee discounts - you may also be eligible for an annual incentive.

### **The Weights Engineering team:**

The Weight Engineering Team are a multi-disciplinary Team of Engineers and Data Scientists who estimate, collate and present mass properties data for a number of multi billion pound submarine programmes. The Weight Engineering team are a specialist team

who play a critical role in the whole boat design and assuring whole boat safety.

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manages this role

Matchtech is a STEM Recruitment Specialist, with over 35 years' experience

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