

# SNR. SYSTEMS ENGINEER: **SUPPLYDESIGN**

BESPOKE ELECTRONICS

## WAVE ENERGY

A DEVELOPMENT ROLE WITHIN EMERGING RENEWABLE SECTOR CRITICAL TO NET-ZERO AND ENERGY SECURITY

**Supply Design are seeking a Snr. Systems Engineer to deliver our Wave Energy PTO development strategy within multiple Wave Energy platforms.**

Supply Design has been involved in Wave Energy since 2016. The driving vision was to replace underperforming hydraulic based systems with high-performance power electronics and drives. We are now commercialising these high-performance solutions in partnership with leading Wave Energy device manufacturers.

This is an important role within our organisation and will become pivotal as the Wave Energy market grows. The Systems Engineer will be responsible for the system's technical specification, project delivery, and the future management of our wave energy product lines.



### ROLE:

Snr. Systems Engineer working across a variety of power conversion products and platforms for Renewable Energy. You will be part of a small team that sets the direction for Wave Energy technical leadership.

### SALARY:

Negotiable. Typical ranges are:  
Snr. Eng £45-55k.  
Principal. £55k+

### LOCATION:

Our Laboratory is in Rosyth, KY11 2WX. 5mins from Queensferry Crossing. Staff commute from Edinburgh, Glasgow and beyond. A mix of office and home working is our norm.

### BENEFITS:

25 days + Public holidays  
5% Pension contribution  
Parental friendly, flexible hours.  
Others being added as we grow.

Supply Design are power conversion specialists working in two of the most dynamic and vital fields for Net-Zero 2050 climate action success:

**Electrification and Renewable Energy.**

Supply Design's work includes all-electric power systems for wave energy, next-generation solar inverters and novel liquid-cooled power systems.

The company's success has been built on years of project and consultancy accomplishments, and we are now commercialising our technology roadmap and patent portfolio.

Recent project wins and investments are funding growth, and we need talented engineers to deliver technology to some of the biggest companies in the world.

And, more importantly to act for our climate in these areas of energy generation and management.

Our team includes hardware and firmware engineers with complementary skills-sets and domain knowledge. Externally, Supply Design is supported by a network of specialist consultants, supply-chain partners, and academic researchers.

Reference Number: SD21SYSE01

[www.supplydesign.com](http://www.supplydesign.com)

# SNR. SYSTEMS ENGINEER - WAVE ENERGY

**INDUSTRIES:**

Net-Zero and Electrification applications including Wave Energy, DC Power, Electric Aircraft, & Critical Power.

**TECHNOLOGY:**

Power conversion of AC-DC, DC-DC, Inverter and Battery charging systems. Motor control and power conditioning.

**DEVELOPMENT ETHOS:**

Systems definition and requirements management, Engaging with Agile and Waterfall Project Management.

WE DO NOT EXPECT APPLICANTS TO HAVE COVERED ALL OF THESE

**ROLE:**

This is an important role within the overall team and involves critical customer facing interaction. The Systems Engineer is responsible for ensuring that the overall system is properly defined and managed throughout the life of the project. The role carries responsibility and offers career progression for a diligent Systems Engineer capable of coordinating projects, managing requirements, and initiative-taking actions to enable successful system deployments.

The successful candidate will be expected to work with the Operations team to improve & implement new product development processes in Systems Engineering. The small, close-knit nature of the design team means the successful candidate will be in a position to influence the future direction of the company's technology and products through these improved working practices.

**SKILLS & EXPERIENCE**

The candidate should be familiar with developing systems in collaboration with multiple engineering disciplines including external suppliers. To be successful in the role, you should demonstrate competence with many of the following:

- Systems Architecture definition and flow-down to requirements
- Requirement's analysis, generation and flow-down to design level specifications
- Preparing Functional and Test Specifications
- Integration & Acceptance testing
- Leading engineering staff and contractors
- Have an innovative approach to problem solving and involve the wider team in implementing solutions
- Work closely with operational teams, and associated manufacturing partners
- COTS module definition and selection

**Experience of any the following will also be an advantage:**

- Renewable Energy Systems including Wave, Wind or Tidal
- Project management, including planning, cost analysis, and scheduling
- Systems modelling and simulation
- Knowledge of compliance analysis and testing, including EMC
- Electrical Cable routing, 2D harness capture
- Electronic Schematic capture & PCB layout
- Parts specification for procurement, BOM creation

**CONTACT US TO APPLY:**

Supply Design offer mentoring and support. The role offers significant career and technical knowledge progression in some of the most rewarding and high-growth technology fields.

Please send your CV and cover note to Linda on [administration@supplydesign.com](mailto:administration@supplydesign.com)

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