

Geomorphology, River Restoration and Habitat Enhancement

JBA
consulting

Our team

We have a large and diverse in-house team spanning geomorphology, ecology, hydraulic modelling, fisheries, wetland creation, landscape, heritage, biodiversity net gain, carbon, social value, stakeholder engagement, and engineering. We are also supported by trusted specialists like the River Restoration Centre and Five Rivers.

Why choose us?

Our innovative river restoration and habitat creation team brings fresh ideas and radical, forward-thinking solutions, going beyond impact assessments to deliver sustainable, collaborative approaches.



How can we support you?

Geomorphological Assessments:

Expertise in fluvial, coastal, and estuarine assessments, including audits, monitoring, sediment sampling, hydraulic assessments, and construction phase supervision.

River & Floodplain Restoration:

Experienced in progressing restoration and weir removal projects from concept to construction, providing detailed plans, CAD drawings, 3D models, and stakeholder visuals. Strong focus on health and safety, with Principal Designers ensuring CDM regulations and safe project delivery.

Hydraulic & Morphological Modelling:

With a strong hydraulics background, we have developed over 40 advanced 2D and 3D models for river restoration, including sediment transport modelling, stream power assessments, and shear stress analysis.

Natural Flood Management (NFM):

Extensive experience of undertaking all aspects of NFM projects: scoping, feasibility, opportunity assessment, catchment/site visits, modelling, appraisal, design, stakeholder engagement, consenting, implementation and monitoring.

Research & Guidance:

Leaders in national-scale morphological research, contributing to key industry guidance including co-authoring CIRIA's Weirs and Culverts guides, and contributors to WWNP evidence directory updates.

Specialist Training:

Courses in Geomorphology, River Restoration Design, Nature Based Solutions, Hydraulic Modelling and Natural Flood Management

Contact us: matthew.hemsworth@jbaconsulting.com