



INNOVATIVE ENGINEERING SOLUTIONS

Delivering innovative engineering solutions in socially responsible ways





WHO ARE ECSL?

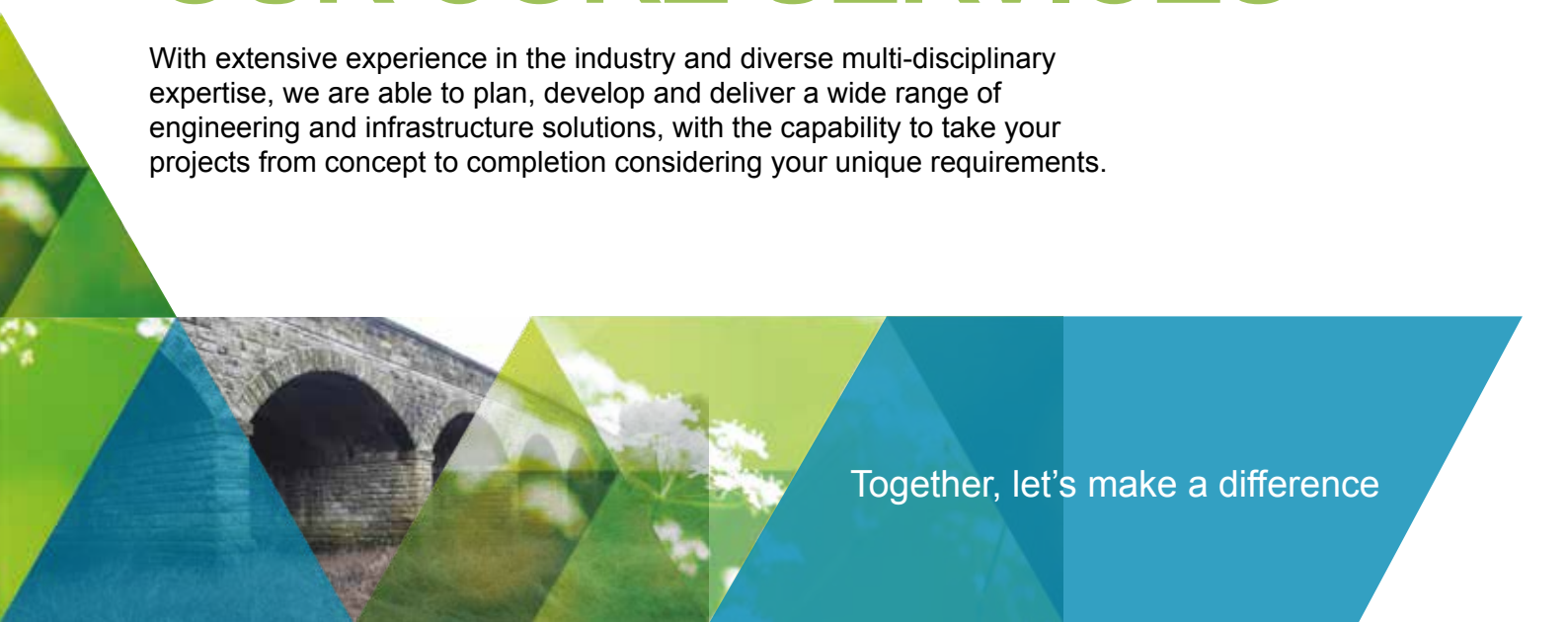
ECSL exists to design and build sustainable and robust engineering solutions which have positive economic, social and environmental impacts whilst embracing the core principals of Innovation, Collaboration and Social Responsibility.



We are a multi-disciplinary engineering consultancy providing a wide range of infrastructure solutions, with offices in the UK and India.

OUR CORE SERVICES

With extensive experience in the industry and diverse multi-disciplinary expertise, we are able to plan, develop and deliver a wide range of engineering and infrastructure solutions, with the capability to take your projects from concept to completion considering your unique requirements.



Together, let's make a difference



Leaders in research and development and the use of innovative asset management techniques

Asset management and assessment in accordance with rail and highway standards

BRIDGES & STRUCTURES

Bridge Design

The ECSL team collaborate with asset owners, contractors, fabricators and consultants to shape robust and enduring bridges that transform the way people live.


Our engineers and technicians are highly experienced in bridge design with expertise in most types of bridge design. Using our industry knowledge, we offer fully integrated services to meet our client's specific requirements.

Asset Management

ECSL are specialists in structures asset management.

We provide a comprehensive range of services to suit our client's specific requirements, from early stage feasibility works, conceptual design, and option selection, to detailed design and construction support.

We use sustainability and conservation principles routinely in our designs and look for research and development opportunities as part of the delivery process without adversely impacting budget.



GEOTECHNICAL ENGINEERING

ECSL have the necessary specialist skills to provide a fully integrated geotechnical design service, complementing the broad design capabilities of the company. We pride ourselves in being able to provide innovative solutions delivering value for our clients, using our experience to understand and identify the geotechnical risks associated with a project.

We provide the full range of geotechnical design and consulting services for both temporary and permanent works. Our projects often involve interfaces which include buildings, bridges, earthworks and underground construction. We have expertise in delivering projects through their whole life cycle from initial feasibility studies to construction supervision and inspections.

Our design team has extensive experience working on major UK rail projects delivering excellence in the rail environment. Understanding the complexities and challenges associated with delivering rail projects allows us and our clients to make the right informed decisions to ensure that projects are delivered safely, on time and on budget.

ECSL can help you identify ground associated risks through undertaking desk studies and feasibility studies. We can then fully design and specify the ground investigation suitable to help identify the right geotechnical solution. We then work with our clients to provide design solutions based on the correct ground models minimising and controlling ground associated risks throughout the design and construction stages.

Foundations and substructure engineering



Construction supervision

Initial feasibility and optioneering studies

Detailed design

Desk studies

Earth retaining structures

Ground investigation specification and interpretation

Soil slope stability analysis and remediation

BUILDINGS & CIVILS

The ECSL Buildings and Civil Engineering design team is experienced in delivering a wide range of civil and infrastructure schemes across many sectors. From railway stations to housing developments, the team works collaboratively with the wider business to develop and deliver integrated design packages. The core team is complemented by specialists in the design of steelwork and concrete framed structures, traditional masonry, timber frames, light gauge steelwork structures, eco-homes, temporary works, highways and drainage.

Building & Structural Engineering Design

We work across all traditional building sectors including Rail structures and are able to offer experienced engineering services on most size projects ranging from simple beam and bearing calculations to large complexed structures using multiple building materials and processes. This includes new build and refurbishment of existing and historic structures, incorporating most building materials and building technics new and old.

We aim to offer bespoke structural engineering solutions that suit individual projects, with client focused collaboration with Architects, clients, and contractors, in order to achieve elegant solutions to meet the demands of each project. From the outset we will always have an open minded approach to structural form and take time to consider all the factors which influence the final solution.

Civil Engineering Design

We have experienced and reliable engineers able to deliver full planning, design and management service for the utilities, earthworks, highways, drainage and other civil engineering components for your project.

To suit individual projects we are able to offer initial advice to clients, which can include feasibility studies and discussion of the implications of highway access works to suit the project requirements, plans and conditions.

Our Civils team regularly work with Local Authorities and Water Authorities to ensure technical approval is met in a timely fashion. With the aim to develop private and public drainage designs, including SUDS compliant, that meets planning approval and fulfils the needs of the client.


Pre-Planning Services & Engineering Due Diligence

We provide a range of services which may be required as part of a planning application or as part of a due diligence stage of a proposed project to inform clients of potential problems resulting from engineering constraints on site.

These services typically include:

- ▶ Flood risk and environmental assessment
- ▶ Drainage strategy
- ▶ Highways access considerations
- ▶ Traffic and transportation considerations
- ▶ Topography and boundary constraints
- ▶ Structural form requirements and associated budget implications
- ▶ Utilities and site constraint assessment
- ▶ Financial planning and guidance





Signalling power,
points heating and
trackside power supply

Railway
stations
and depots

Mechanical and Electrical
building services design

MECHANICAL & ELECTRICAL

The ECSL team is made up of established Electrical and Mechanical, Telecoms Design Engineers with experience across a variety of sectors.

We offer clients the services of engineers and specialists who possess a combination of innovative design experience coupled with extensive practical knowledge.

Whether supporting other ECSL teams to deliver multi-disciplinary designs or leading discipline-specific projects, we offer a comprehensive range of engineering design services delivered by a team of diligent, professional and experienced electrical and mechanical and telecoms engineers.

We have good understanding and appreciation of standards and specifications applicable to the sectors we work in, as well as international codes and practices, which enables our designers to model and evaluate both traditional and innovative design solutions. This enables us to limit our clients' commercial risks by assessing the suitability of a design prior to installation.


With the breadth of experience available, we are able to offer a variety of services accessible via a single point of contact.



Lighting
and CCTV
systems


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