RAEBURN
GROUP

REAL WORK / GROWTH / EVIDENCE

Real-World Student Project Brief Library

24 scoped, measurable project briefs across Raeburn priority disciplines



RAEBURN GROUP / FE PARTNERSHIPS

Operational delivery toolkit / Controlled draft for provider review

NOVEMBER 2026

Illustrative imagery. No student placement, legal approval or live vacancy is implied.

PROJECT LIBRARY / HOW TO SELECT

Defined work. Real evidence. Safe scope.

These are proposed learning projects. The college and named host must select a task relevant to the learner's exact occupational specialism, then approve feasibility, supervision and access.

Foundation = structured T Level student work. Extension = suitable for advanced students only with close specialist supervision. Project hours are indicative planning estimates, not approved placement hours.

Quant & finance / 4 briefs

Software & AI / 4 briefs

Zero-knowledge / 4 briefs

Cybersecurity / 4 briefs

Marketing & growth / 3 briefs

Research & impact / 5 briefs

Project admission checklist

- ☐ Relevant to student specialism
- ☐ Named mentor and achievable acceptance tests
- ☐ Real employer-owned task or genuine simulated precursor
- ☐ Safe data and approved access
- ☐ Accessible tools, useful feedback, defined evidence
- ☐ Agreed timebox and college review

PROJECT BRIEF 01 / 24

Financial Forecasting & Scenario Dashboard

QUANT & FINANCE • FOUNDATION

Candidate hosts: Holding Group / Consulting

Subject match: Accounting / Digital Data Analytics

Suggested hours: 40-60 (planning range; confirm locally)

The project outcome

A traceable 12-month cash-flow and variance dashboard

Student work sequence

01 Clean synthetic finance inputs

02 define assumptions

03 build baseline and downside

04 explain sensitivity

05 peer-check formulas.

Evidence & acceptance

Workbook, model notes, test cases, two-minute walkthrough.

Controls and supervision

Synthetic/non-client data only; no financial advice or unauthorised decisions.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 02 / 24

Payment Reconciliation Exception Finder

QUANT & FINANCE • FOUNDATION

Candidate hosts: Digital Assets

Subject match: Accounting / Digital Data Analytics

Suggested hours: 30-50 (planning range; confirm locally)

The project outcome

An anomaly log and control recommendations for simulated transfers

Student work sequence

01 Join synthetic transaction tables

02 detect mismatches

03 categorise causes

04 prototype weekly exception report.

Evidence & acceptance

Data dictionary, reconciliation workbook, sampled verified exceptions.

Controls and supervision

No live payment, bank access, keys or real account data.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 03 / 24

Quant Research Backtest Hygiene

QUANT & FINANCE • EXTENSION

Candidate hosts: Digital Assets / Ventures

Subject match: Digital Data Analytics

Suggested hours: 40-70 (planning range; confirm locally)

The project outcome

An auditable backtesting methodology on public/synthetic data

Student work sequence

01 Compare baseline strategies

02 avoid lookahead

03 log assumptions

04 calculate drawdown and robustness.

Evidence & acceptance

Notebook, reproducible dataset manifest, methodological critique.

Controls and supervision

Research simulation only; no trading recommendations or execution.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 04 / 24

Economic Corridor Cost Study

QUANT & FINANCE • FOUNDATION

Candidate hosts: Digital Assets

Subject match: Finance / Digital Data Analytics

Suggested hours: 30-50 (planning range; confirm locally)

The project outcome

Transparent UK-to-Nepal remittance-cost comparison

Student work sequence

01 Find public fee sources

02 compare rates

03 model illustrative scenarios

04 document data limitations.

Evidence & acceptance

Sourced spreadsheet and a two-page findings note.

Controls and supervision

No unsupported live FX prices, regulatory claims or customer data.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 05 / 24

Accessible Form & Workflow

SOFTWARE & AI • FOUNDATION

Candidate hosts: Technologies / ClientMotive

Subject match: Digital Software Development

Suggested hours: 35-55 (planning range; confirm locally)

The project outcome

An accessible application form with clear validation

Student work sequence

01 Build front-end using approved repo

02 keyboard checks

03 unit tests

04 PR review

05 fix findings.

Evidence & acceptance

Code review, accessibility checklist, test results and screenshots.

Controls and supervision

Staging only; no personal or sensitive input.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 06 / 24

API Integration Contract Tests

SOFTWARE & AI • FOUNDATION

Candidate hosts: Automation Labs / Technologies

Subject match: Digital Software Development

Suggested hours: 40-60 (planning range; confirm locally)

The project outcome

Mock-backed tests for a public/internal API adapter

Student work sequence

01 Read OpenAPI schema

02 identify edge cases

03 implement mocks

04 run Hub test suite

05 document failures.

Evidence & acceptance

Test cases, CI job reference, reviewed PR.

Controls and supervision

No shared pipeline mutations or production credentials.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 07 / 24

AI Workflow Benchmark & Evaluation

SOFTWARE & AI • EXTENSION

Candidate hosts: Automation Labs

Subject match: Digital Software Development / Digital Data Analytics

Suggested hours: 45-70 (planning range; confirm locally)

The project outcome

Evidence-based comparison of AI automation choices

Student work sequence

01 Set success criteria

02 curate synthetic prompts

03 evaluate errors/cost/latency

04 run structured review.

Evidence & acceptance

Benchmark matrix, evaluation report, failure taxonomy.

Controls and supervision

No private prompts/secrets in unapproved models; human review.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 08 / 24

Recruitment Matching Fairness Study

SOFTWARE & AI • EXTENSION

Candidate hosts: TRG Recruitment / ClientMotive

Subject match: Digital Data Analytics

Suggested hours: 40-60 (planning range; confirm locally)

The project outcome

Bias-aware assessment of synthetic ranking outputs

Student work sequence

01 Design synthetic candidate fixtures

02 evaluate rank stability and proxies

03 recommend review controls.

Evidence & acceptance

Evaluation notebook, limitations and fairness report.

Controls and supervision

No real candidate profiling; no automated hiring decisions.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 09 / 24

ZK-SNARK Circuit Basics

ZERO-KNOWLEDGE • ADVANCED EXTENSION

Candidate hosts: Digital Assets / Technologies

Subject match: Digital Software Development

Suggested hours: 40-70 (planning range; confirm locally)

The project outcome

A toy circuit with verifiable public test vectors

Student work sequence

01 Study constraints and witnesses

02 implement toy arithmetic/range circuit

03 compare verified outputs.

Evidence & acceptance

Toy circuit, fixture tests, short explainability memo.

Controls and supervision

Training/test environment only; no protocol changes.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 10 / 24

zk-STARK Proof-System Literature Map

ZERO-KNOWLEDGE • ADVANCED EXTENSION

Candidate hosts: Digital Assets / Ventures

Subject match: Digital Data Analytics / Digital Software Development

Suggested hours: 30-50 (planning range; confirm locally)

The project outcome

A defensible research map of AIR, FRI, verifier trade-offs

Student work sequence

01 Read primary sources

02 compare assumptions and trade-offs

03 classify open implementation risks.

Evidence & acceptance

Annotated bibliography, comparison table, research questions.

Controls and supervision

No claim of verified security from literature alone.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 11 / 24

Proof Benchmark Harness

ZERO-KNOWLEDGE • ADVANCED EXTENSION

Candidate hosts: Digital Assets / Technologies

Subject match: Digital Software Development

Suggested hours: 45-75 (planning range; confirm locally)

The project outcome

Reproducible benchmark of safe sample proof circuits

Student work sequence

01 Use pinned open-source versions

02 measure proof time, size and verifier cost

03 run safe experiments.

Evidence & acceptance

Repeatable scripts, environment manifest, charts and limitations.

Controls and supervision

No real secrets or financial protocol acceptance.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 12 / 24

Protocol Threat Model for Offline Payments

ZERO-KNOWLEDGE • ADVANCED EXTENSION

Candidate hosts: Digital Assets

Subject match: Digital Support and Security / Digital Data Analytics

Suggested hours: 35-60 (planning range; confirm locally)

The project outcome

A tabletop attack tree for offline-value exchange

Student work sequence

01 Map trust boundaries

02 identify double-spend/replay/key-loss threats

03 propose detectable controls.

Evidence & acceptance

Trust-boundary diagram, risk register, mitigations.

Controls and supervision

No operational attack instructions against live systems.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 13 / 24

Secure Dependencies & SBOM

CYBERSECURITY • FOUNDATION

Candidate hosts: Technologies / Communications

Subject match: Digital Support and Security

Suggested hours: 30-50 (planning range; confirm locally)

The project outcome

A reviewed software dependency inventory

Student work sequence

01 Analyse lockfiles

02 generate SBOM

03 classify publicly disclosed advisories

04 plan safe fixes.

Evidence & acceptance

SBOM, risk/impact table, reviewed remediation recommendations.

Controls and supervision

Approved repos only; no live production patch.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 14 / 24

Authentication UX & Abuse Cases

CYBERSECURITY • EXTENSION

Candidate hosts: ClientMotive / Technologies

Subject match: Digital Support and Security

Suggested hours: 35-55 (planning range; confirm locally)

The project outcome

Accessible, threat-informed sign-in test plan

Student work sequence

01 List abuse stories

02 check MFA flow in staging

03 test session expiry/notifications

04 write acceptance tests.

Evidence & acceptance

Threat model, test plan, redacted findings.

Controls and supervision

No testing real customers or bypassing live authentication.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 15 / 24

Incident Response Tabletop

CYBERSECURITY • FOUNDATION

Candidate hosts: Communications / Holding Group

Subject match: Digital Support and Security

Suggested hours: 20-35 (planning range; confirm locally)

The project outcome

A simulated phishing/data-loss response playbook

Student work sequence

01 Run controlled scenario

02 identify owner, severity, escalation, evidence and communication.

Evidence & acceptance

Tabletop notes, corrected runbook and action tracker.

Controls and supervision

No real phishing campaigns or live breach simulation.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 16 / 24

Security-by-Design Review

CYBERSECURITY • EXTENSION

Candidate hosts: Automation Labs / Digital Assets

Subject match: Digital Support and Security

Suggested hours: 35-60 (planning range; confirm locally)

The project outcome

A reviewed design risk assessment for a proposed feature

Student work sequence

01 Draw data flows

02 classify data

03 define trust zones

04 prioritise security controls

05 peer-review.

Evidence & acceptance

Data-flow diagram, risk register, mitigation plan.

Controls and supervision

Design only; specialist signs off production security.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 17 / 24

SEO & Content Strategy Sprint

MARKETING & GROWTH • FOUNDATION

Candidate hosts: Media & Intelligence / Commerce

Subject match: Marketing

Suggested hours: 35-55 (planning range; confirm locally)

The project outcome

A measured content plan for an approved audience

Student work sequence

01 Research search intent

02 review competitor claims

03 draft content plan and accessibility checklist.

Evidence & acceptance

Keyword map, editorial calendar, draft examples and measurement plan.

Controls and supervision

No unapproved publication or copying protected content.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 18 / 24

B2B Outreach Research Pack

MARKETING & GROWTH • FOUNDATION

Candidate hosts: Consulting / Recruitment

Subject match: Marketing / Management and Administration

Suggested hours: 30-50 (planning range; confirm locally)

The project outcome

A lawful, relevant buyer research and contact approach

Student work sequence

01 Build ideal-client hypotheses

02 research public sources

03 segment needs

04 write controlled outreach variants.

Evidence & acceptance

Research memo, messaging matrix, compliance review.

Controls and supervision

No bulk sending or unauthorised personal-data harvesting.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 19 / 24

Campaign Performance Analysis

MARKETING & GROWTH • FOUNDATION

Candidate hosts: Commerce / Holding Group

Subject match: Digital Data Analytics / Marketing

Suggested hours: 30-50 (planning range; confirm locally)

The project outcome

Evidence-based conversion insights from sample metrics

Student work sequence

01 Clean sample campaign data

02 map funnel

03 calculate conversions

04 identify testable improvements.

Evidence & acceptance

Dashboard, metric definitions, experiment proposal.

Controls and supervision

No access to personal analytics accounts unless approved.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 20 / 24

Social Impact Programme Evaluation

RESEARCH & IMPACT • FOUNDATION

Candidate hosts: Impact / Welfare Advocates

Subject match: Digital Data Analytics / Management and Administration

Suggested hours: 35-60 (planning range; confirm locally)

The project outcome

A measurable programme theory and impact dashboard

Student work sequence

01 Map outcomes

02 define non-intrusive indicators

03 create sample collection instrument

04 test usability.

Evidence & acceptance

Theory of change, indicators, accessible report.

Controls and supervision

No sensitive case data, vulnerable-client contact or unapproved surveys.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 21 / 24

Legal/Regulatory Research Brief

RESEARCH & IMPACT • EXTENSION

Candidate hosts: Paralegal Services / Consulting

Subject match: Legal Services

Suggested hours: 30-55 (planning range; confirm locally)

The project outcome

A sourced and scoped research note

Student work sequence

01 Define legal question

02 review official sources

03 record jurisdiction and effective dates

04 draft options for review.

Evidence & acceptance

Source log, limitations and supervisor-reviewed brief.

Controls and supervision

No independent legal advice, client representation or filings.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 22 / 24

Care Service Access Improvement

RESEARCH & IMPACT • FOUNDATION

Candidate hosts: Caring Crew

Subject match: Management and Administration / Health

Suggested hours: 30-50 (planning range; confirm locally)

The project outcome

An accessible service intake improvement proposal

Student work sequence

01 Map hypothetical service journey

02 identify friction

03 draft clearer forms and escalation points.

Evidence & acceptance

Journey map, accessible prototype, risk note.

Controls and supervision

No care delivery without setting/supervision approval or identifiable client data.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 23 / 24

Renewable-Service Competitor Review

RESEARCH & IMPACT • FOUNDATION

Candidate hosts: Services / Renewables Hub

Subject match: Management and Administration

Suggested hours: 30-45 (planning range; confirm locally)

The project outcome

A service-market and supplier research pack

Student work sequence

01 Research public specifications/pricing

02 compare categories

03 identify customer information gaps.

Evidence & acceptance

Sourced comparison and action list.

Controls and supervision

No electrical work or performance claims without qualified review.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

PROJECT BRIEF 24 / 24

Digital Inclusion Usability Assessment

RESEARCH & IMPACT • FOUNDATION

Candidate hosts: Impact / Technologies

Subject match: Digital Software Development / Digital Support and Security

Suggested hours: 35-55 (planning range; confirm locally)

The project outcome

A practical accessibility improvement report

Student work sequence

01 Conduct keyboard and low-bandwidth reviews on approved site

02 log issues

03 propose prioritised fixes.

Evidence & acceptance

Accessibility audit, acceptance criteria, reviewed design changes.

Controls and supervision

Consent for user testing; no unapproved personal data.

Mentor review prompts

Can the student explain the purpose, demonstrate an artefact, show how quality was checked, and identify a useful next improvement?

EVIDENCE & EVALUATION

Common project assessment rubric

Mentors tailor this to the T Level specialism and individual objectives, with provider oversight.

Relevance

The work maps to a relevant learning goal and contributes meaningfully to the host activity.

Process

Student describes inputs, assumptions, controls, methods, risks and how help was sought.

Quality

Outputs have defined tests, references, review comments and corrected defects.

Professionalism

Clear updates, reliable hours, inclusive collaboration, safe handling and learning reflection.

Evidence

Artefacts are approved for storage and appropriately anonymised; no unauthorised publication.

GUIDANCE & SOURCES

Relevant current guidance

DfE T Level industry placements guidance for providers (updated 15 June 2026)

DfE placement templates, due-diligence and completion forms (2026)

T Levels employer responsibilities

T Levels employer legal compliance

HSE young people at work

ICO data protection for organisations