RAEBURN
GROUP

FURTHER EDUCATION / EARLY CAREERS / SPECIALIST RESEARCH

Role specifications & project pathways.

35 considered opportunities across six disciplines.

From T Level placements to advanced cryptography research.



THE RAEBURN GROUP

Speculative role catalogue / November 2026

Illustrative image | Not currently advertised vacancies

01 / HOW TO USE THIS CATALOGUE

Carefully scoped roles.

Practical work. Clear expectations.

Each specification describes a potential project-based role within Raeburn Group. It can be adapted for college industry placements, graduate projects or specialist hiring. It is not evidence of a current vacancy, approved student capacity, agreed working arrangement or assigned supervisor.

PLACEMENT

Suitable starter tasks can be aligned with a T Level curriculum, following provider approval.

PLACEMENT / STRETCH

Accessible starter work is possible; the wider scope needs experienced oversight.

ADVANCED / SPECIALIST

The named role requires advanced expertise; listed feeder tasks are student-appropriate.

ALL PROFILES USE THE SAME STRUCTURE

Purpose / Responsibilities / Safe starter tasks / Example outputs / Skills / Success evidence / Boundaries

02 / ROLE DIRECTORY 1 OF 3

Choose a discipline.

Use the role code to locate a full one-page specification. Titles and host businesses are proposed and should be confirmed before external advertising.

FINANCE & QUANT

F01	Quantitative Research Assistant	Placement
F02	Financial Risk & Portfolio Analytics Assistant	Placement
F03	FP&A and Financial Modelling Assistant	Placement
F04	Treasury, FX & Payment Systems Research Assistant	Placement
F05	Investment & Economic Research Assistant	Placement
F06	Payments Reconciliation & Controls Assistant	Placement

SOFTWARE, DATA & AI

D01	Frontend & Accessibility Developer	Placement
D02	Backend & API Developer	Placement
D03	Full-Stack Product Developer	Placement
D04	Mobile & Offline-First Software Developer	Placement
D05	Applied AI & Agent Evaluation Research Assistant	Placement
D06	Data Engineering & BI Developer	Placement

02 / ROLE DIRECTORY 2 OF 3

Choose a discipline.

Use the role code to locate a full one-page specification. Titles and host businesses are proposed and should be confirmed before external advertising.

SOFTWARE, DATA & AI

D07	Quality Engineering & Test Automation Assistant	Placement
D08	Platform, DevOps & Observability Assistant	Placement

ZERO-KNOWLEDGE & PROTOCOLS

Z01	Zero-Knowledge Proofs Research Assistant	Placement / feeder
Z02	zk-SNARK Circuit Research Engineer	Specialist / advanced
Z03	zk-STARK / AIR / FRI Research Engineer	Specialist / advanced
Z04	Proof Verification & Performance Engineer	Advanced / specialist
Z05	Distributed Ledger & Consensus Research Engineer	Advanced / specialist
Z06	Applied Cryptography & Offline Payments Researcher	Advanced / specialist

SECURITY & ASSURANCE

S01	Security Operations & Threat Intelligence Analyst	Placement
S02	Application Security & Secure Code Assistant	Placement / stretch
S03	Privacy Engineering & Data Protection Research Assistant	Placement
S04	Protocol Security & Adversarial Testing Engineer	Advanced / specialist

02 / ROLE DIRECTORY 3 OF 3

Choose a discipline.

Use the role code to locate a full one-page specification. Titles and host businesses are proposed and should be confirmed before external advertising.

SECURITY & ASSURANCE

S05	Cloud, IAM & Infrastructure Security Assistant	Placement / stretch

MARKETING & GROWTH

M01	Digital Growth Marketing Assistant	Placement
M02	Content, Media & Editorial Research Assistant	Placement
M03	SEO, Content Performance & Web Analytics Assistant	Placement
M04	B2B Business Development & Partnerships Assistant	Placement
M05	Product Marketing & Customer Research Assistant	Placement

RESEARCH & INNOVATION

R01	Market & Competitor Intelligence Research Assistant	Placement
R02	Emerging AI & Open-Source Technology Researcher	Placement / stretch
R03	Financial Inclusion & Payments Policy Researcher	Placement / stretch
R04	UX, Accessibility & Human-Centred Product Researcher	Placement
R05	Risk, Legal & Regulatory Research Assistant	Placement

RAEBURN
GROUP

01 / SIX DISCIPLINES

Finance & quantitative research.

From financial records and real market questions to evidence-backed commercial insight.



6 PROPOSED ROLE PROFILES

- F01 Quantitative Research Assistant
- F02 Financial Risk & Portfolio Analytics Assistant
- F03 FP&A and Financial Modelling Assistant
- F04 Treasury, FX & Payment Systems Research Assistant
- F05 Investment & Economic Research Assistant
- F06 Payments Reconciliation & Controls Assistant

F01

FINANCE & QUANT / ROLE PROFILE

Quantitative Research Assistant

PLACEMENT

HOST BUSINESSES

Raeburn Digital Assets / The Raeburn Consulting Group / The Raeburn Holding Group

T LEVEL SUBJECT CONNECTION

Digital Data Analytics / Accounting / Finance (existing cohorts)

THE ROLE

Investigate financial and economic questions using reproducible data, clear assumptions and sensible statistical methods.

WHAT YOU WOULD WORK ON

- Collect and clean public financial datasets with documented provenance
- Build descriptive statistics and exploratory visualisations
- Compare simple forecasting and risk models against baselines
- Explain limitations, outliers and the difference between correlation and causation
- Prepare charts and concise research notes for review

SAFE STARTER TASKS / FEEDER ACTIVITY

- Reproduce an open-data inflation or FX chart
- Compare moving averages and a naïve forecast on historical data
- Maintain a source-and-assumptions log

EXAMPLE DELIVERABLES

- Reproducible analysis notebook
- Two-page research brief with methods and caveats

SKILLS & KNOWLEDGE TO BUILD

- Excel and Python fundamentals
- Statistics, probability and data quality
- Visualisation and research writing
- Version control and peer review

SUCCESS EVIDENCE

- Analysis runs from a clean dataset
- Assumptions and uncertainty are explicit

PROFESSIONAL BOUNDARIES

- No live trading, recommendations or unreviewed model deployment
- Use licensed/public or anonymised data only

F02

FINANCE & QUANT / ROLE PROFILE

Financial Risk & Portfolio Analytics Assistant

PLACEMENT

HOST BUSINESSES

Raeburn Digital Assets / The Raeburn Holding Group / Raeburn Ventures

T LEVEL SUBJECT CONNECTION

Digital Data Analytics / Accounting / Finance (existing cohorts)

THE ROLE

Support controlled assessment of exposure, concentration and scenarios across illustrative portfolios and business activities.

WHAT YOU WOULD WORK ON

- Classify exposure by currency, geography and counterparty
- Build dashboards for changes in risk indicators
- Test hypothetical stress scenarios against agreed assumptions
- Research the strengths and weaknesses of common risk measures
- Document calculation controls and exception handling

SAFE STARTER TASKS / FEEDER ACTIVITY

- Build an illustrative currency exposure heatmap
- Validate calculations against hand-worked cases
- Explain a stress-case result

EXAMPLE DELIVERABLES

- Risk-monitoring workbook or dashboard
- Scenario methodology and review notes

SKILLS & KNOWLEDGE TO BUILD

- Probability and spreadsheet modelling
- SQL/Python data analysis
- Numerical validation
- Risk communication and controls

SUCCESS EVIDENCE

- Calculations independently reconcile
- Outputs distinguish scenarios from forecasts

PROFESSIONAL BOUNDARIES

- No investment advice, dealing or risk-limit approval
- No access to live customer positions without formal authorisation

F03

FINANCE & QUANT / ROLE PROFILE

FP&A and Financial Modelling Assistant

PLACEMENT

HOST BUSINESSES

The Raeburn Holding Group / Raeburn Ventures / Raeburn Services

T LEVEL SUBJECT CONNECTION

Accounting / Digital Data Analytics / Management and Administration

THE ROLE

Turn business data into clear budgets, forecasts and financial explanations for responsible decision-makers.

WHAT YOU WOULD WORK ON

- Support monthly budget-versus-actual reporting
- Create transparent revenue and cost drivers
- Build scenario and sensitivity tables
- Check formula consistency and trace inputs
- Draft commercial commentary with risks and assumptions

SAFE STARTER TASKS / FEEDER ACTIVITY

- Build a three-scenario revenue model using mock data
- Reconcile a sample P&L to transaction extracts
- Create a variance commentary template

EXAMPLE DELIVERABLES

- Auditable driver-based model
- Management-report slide and assumption register

SKILLS & KNOWLEDGE TO BUILD

- Excel modelling and financial statements
- Budgeting and unit economics
- Data validation
- Clear stakeholder reporting

SUCCESS EVIDENCE

- Inputs have source references
- Model has independent checks and useful explanations

PROFESSIONAL BOUNDARIES

- Sensitive company finances remain access-controlled
- No sign-off on budgets or statutory accounts

F04

FINANCE & QUANT / ROLE PROFILE

Treasury, FX & Payment Systems Research Assistant

PLACEMENT

HOST BUSINESSES

Raeburn Digital Assets / The Raeburn Holding Group / The Raeburn Consulting Group

T LEVEL SUBJECT CONNECTION

Digital Data Analytics / Accounting / Finance (existing cohorts)

THE ROLE

Research practical cross-border payments, currency conversion and settlement controls without operating regulated money flows.

WHAT YOU WOULD WORK ON

- Map conceptual payment life cycles and failure states
- Compare public FX rates and quote conventions
- Study liquidity, fees, cut-offs and time zones
- Analyse payment reconciliation and settlement exceptions
- Write balanced research on customer impact and financial inclusion

SAFE STARTER TASKS / FEEDER ACTIVITY

- Map a hypothetical UK-to-Nepal transfer
- Compare published FX market references over time
- Build a simulated settlement timeline

EXAMPLE DELIVERABLES

- Payment-flow diagram with exceptions
- Evidence-led FX and settlement research note

SKILLS & KNOWLEDGE TO BUILD

- Payments terminology and FX arithmetic
- Research quality and spreadsheet analysis
- Process mapping
- Financial control awareness

SUCCESS EVIDENCE

- Flow includes failure and recovery cases
- Numbers and fees are labelled as illustrative

PROFESSIONAL BOUNDARIES

- No handling of customer funds or real transactions
- No unapproved claims about licensing or banking partnerships

F05

FINANCE & QUANT / ROLE PROFILE

Investment & Economic Research Assistant

PLACEMENT

HOST BUSINESSES

Raeburn Ventures / The Raeburn Consulting Group / The Raeburn Holding Group

T LEVEL SUBJECT CONNECTION

Digital Data Analytics / Accounting / Management and Administration

THE ROLE

Produce rigorous company, sector and macroeconomic research to inform internal strategy and commercial decisions.

WHAT YOU WOULD WORK ON

- Build comparable-company and sector datasets
- Read public filings and identify relevant metrics
- Describe business models, revenue drivers and competitive risks
- Prepare simple valuation sensitivities for illustrative purposes
- Create source-linked briefings for senior review

SAFE STARTER TASKS / FEEDER ACTIVITY

- Compare published performance of three competitors
- Create a macroeconomic indicator tracker
- Research a market-entry assumption

EXAMPLE DELIVERABLES

- Cited market brief
- Peer-comparison workbook with limitations

SKILLS & KNOWLEDGE TO BUILD

- Financial literacy and data handling
- Critical research and source evaluation
- Commercial reasoning
- Clear chart annotation

SUCCESS EVIDENCE

- Every material claim can be traced
- Fact, estimate and opinion are separated

PROFESSIONAL BOUNDARIES

- No client investment recommendations or securities dealing
- Respect market-data licensing and confidential information

F06

FINANCE & QUANT / ROLE PROFILE

Payments Reconciliation & Controls Assistant

PLACEMENT

HOST BUSINESSES

Raeburn Digital Assets / Raeburn Services / The Raeburn Holding Group

T LEVEL SUBJECT CONNECTION

Accounting / Digital Data Analytics / Management and Administration

THE ROLE

Help make payments operations reliable through controlled matching, exception investigation and documented reconciliation.

WHAT YOU WOULD WORK ON

- Map transactions between example ledgers and processor records
- Design tolerance and duplicate-detection checks
- Categorise mismatches and propose remediation routes
- Maintain controlled exception and incident templates
- Test the reconciliation workflow against deliberately seeded faults

SAFE STARTER TASKS / FEEDER ACTIVITY

- Reconcile a synthetic batch of payments
- Spot deliberately duplicated transactions
- Build a daily control checklist

EXAMPLE DELIVERABLES

- Synthetic reconciliation report
- Exception taxonomy and test evidence

SKILLS & KNOWLEDGE TO BUILD

- Double-entry and cash controls
- Spreadsheet/SQL comparisons
- Operational risk and evidence keeping
- Data privacy

SUCCESS EVIDENCE

- Exceptions are correctly flagged
- Clear handoff and audit trail exist

PROFESSIONAL BOUNDARIES

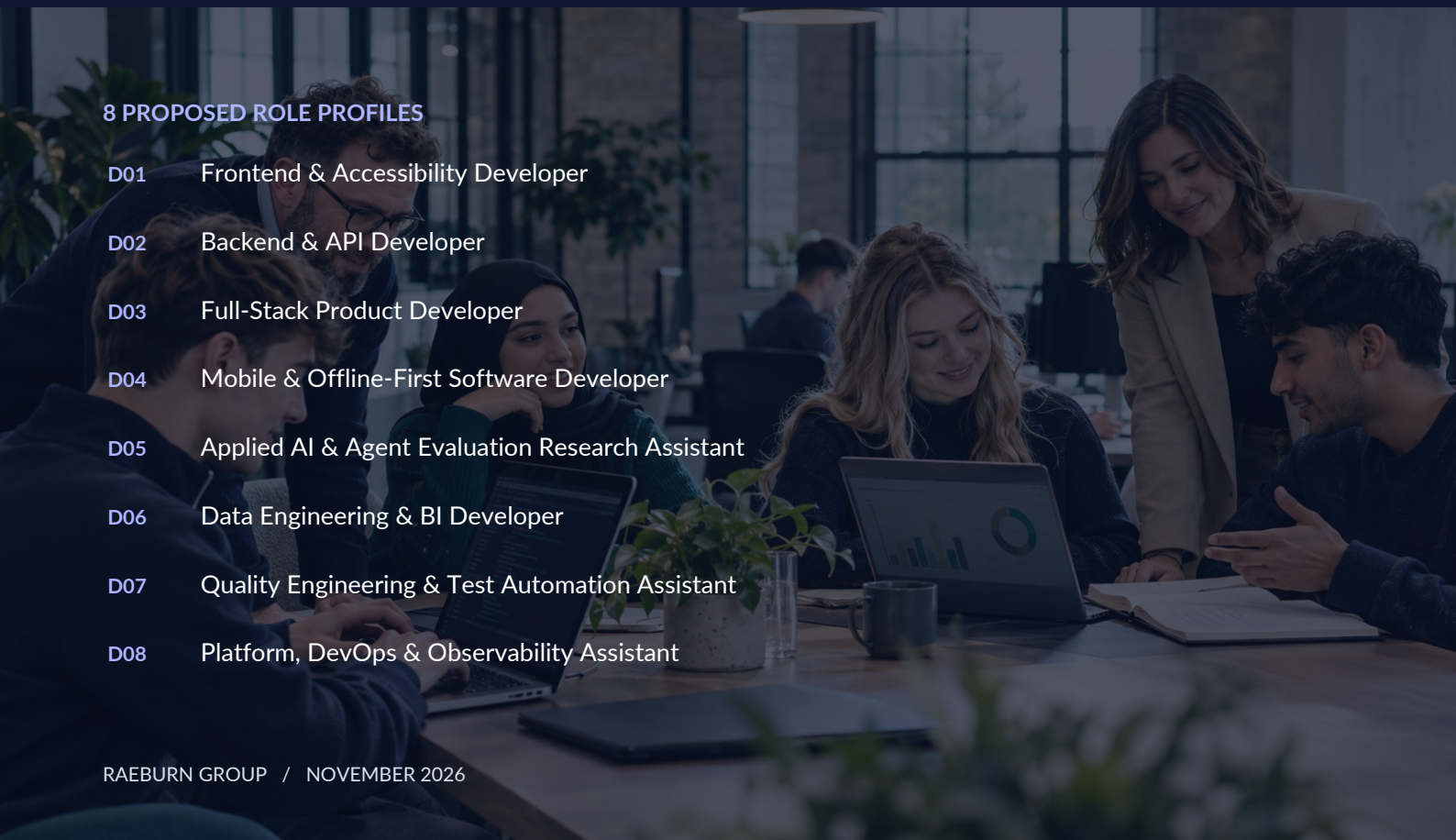
- Synthetic/anonymised datasets only by default
- Never alter production financial records or approve settlement

RAEBURN
GROUP

02 / SIX DISCIPLINES

Software, data & artificial intelligence.

Build better products while learning secure delivery, accessibility and careful evaluation.



8 PROPOSED ROLE PROFILES

- D01 Frontend & Accessibility Developer
- D02 Backend & API Developer
- D03 Full-Stack Product Developer
- D04 Mobile & Offline-First Software Developer
- D05 Applied AI & Agent Evaluation Research Assistant
- D06 Data Engineering & BI Developer
- D07 Quality Engineering & Test Automation Assistant
- D08 Platform, DevOps & Observability Assistant

D01

SOFTWARE, DATA & AI / ROLE PROFILE

Frontend & Accessibility Developer

PLACEMENT

HOST BUSINESSES

Raeburn Technologies / ClientMotive / Raeburn Communications

T LEVEL SUBJECT CONNECTION

Digital Software Development / Digital Support and Security

THE ROLE

Build and refine accessible interfaces that remain usable across mobile, desktop and constrained connectivity.

WHAT YOU WOULD WORK ON

- Implement scoped interface components from approved designs
- Improve keyboard navigation and semantic HTML
- Test responsive layouts at practical screen sizes
- Review error, empty and loading states
- Fix small bugs through supervised pull requests

SAFE STARTER TASKS / FEEDER ACTIVITY

- Build an accessible form in a sandbox
- Test a page without a mouse
- Fix a verified mobile layout defect

EXAMPLE DELIVERABLES

- Reviewed UI component and tests
- Accessibility observation report

SKILLS & KNOWLEDGE TO BUILD

- HTML/CSS/JavaScript fundamentals
- Component design and Git
- WCAG-oriented testing
- Clear bug reports

SUCCESS EVIDENCE

- Keyboard path works in tests
- Feature passes agreed review criteria

PROFESSIONAL BOUNDARIES

- No unsupervised production publication
- No sensitive customer data in screenshots or logs

D02

SOFTWARE, DATA & AI / ROLE PROFILE

Backend & API Developer

PLACEMENT

HOST BUSINESSES

Raeburn Technologies / ClientMotive / Raeburn Automation Labs

T LEVEL SUBJECT CONNECTION

Digital Software Development / Digital Support and Security

THE ROLE

Contribute safe server-side features and reliable integrations under an experienced engineer.

WHAT YOU WOULD WORK ON

- Implement small API endpoints against defined contracts
- Validate inputs and handle failure cases
- Write unit tests and useful logs
- Study permissions, rate limiting and idempotency
- Document interfaces and error responses

SAFE STARTER TASKS / FEEDER ACTIVITY

- Build a mocked CRUD endpoint
- Test invalid-input and permission cases
- Write an API example and runbook

EXAMPLE DELIVERABLES

- Tested API feature in a controlled repository
- Interface specification and acceptance evidence

SKILLS & KNOWLEDGE TO BUILD

- Programming fundamentals and HTTP
- SQL and API data shapes
- Authentication principles
- Unit testing and debugging

SUCCESS EVIDENCE

- Tests demonstrate correct error handling
- Code passes supervised review

PROFESSIONAL BOUNDARIES

- No unrestricted access to secrets or production databases
- No direct deployment or permissions changes

D03

SOFTWARE, DATA & AI / ROLE PROFILE

Full-Stack Product Developer

PLACEMENT

HOST BUSINESSES

Raeburn Technologies / Raeburn Ventures / ClientMotive

T LEVEL SUBJECT CONNECTION

Digital Software Development / Digital Data Analytics

THE ROLE

Help deliver complete but appropriately scoped product journeys from interface to tested server response.

WHAT YOU WOULD WORK ON

- Translate user stories into small implementation tasks
- Connect forms to documented APIs
- Handle loading, failure and recovery states
- Test basic database flows and validation
- Prepare clear release notes and demo evidence

SAFE STARTER TASKS / FEEDER ACTIVITY

- Build an internal demo workflow using sample data
- Write a small end-to-end test
- Document a resolved customer issue

EXAMPLE DELIVERABLES

- Supervised working feature
- User-journey test with screenshots and notes

SKILLS & KNOWLEDGE TO BUILD

- Frontend and backend basics
- Git and code review
- Test design
- Product communication

SUCCESS EVIDENCE

- Feature meets written acceptance criteria
- No regression in defined test suite

PROFESSIONAL BOUNDARIES

- Development and staging environments first
- Live release remains a separately authorised activity

D04

SOFTWARE, DATA & AI / ROLE PROFILE

Mobile & Offline-First Software Developer

PLACEMENT

HOST BUSINESSES

Raeburn Technologies / Raeburn Digital Assets / Raeburn Communications

T LEVEL SUBJECT CONNECTION

Digital Software Development / Digital Support and Security

THE ROLE

Explore accessible mobile experiences that behave predictably when networks are unavailable or unreliable.

WHAT YOU WOULD WORK ON

- Build small mobile or PWA components
- Implement safe local-state handling in test environments
- Model connectivity loss and eventual resynchronisation
- Test duplicate requests and conflict states
- Document offline user experience and recovery behaviour

SAFE STARTER TASKS / FEEDER ACTIVITY

- Create an offline-capable task-list prototype
- Exercise airplane-mode recovery tests
- Diagram a conflict-resolution decision

EXAMPLE DELIVERABLES

- Offline-first prototype with test cases
- Connectivity failure and recovery report

SKILLS & KNOWLEDGE TO BUILD

- JavaScript or mobile fundamentals
- State machines and data lifecycle
- Mobile accessibility
- Deterministic testing

SUCCESS EVIDENCE

- Repeat actions do not duplicate data
- Recovery path is understandable and tested

PROFESSIONAL BOUNDARIES

- No real-value offline payment authorisation
- No bespoke cryptographic wallet construction by students

D05

SOFTWARE, DATA & AI / ROLE PROFILE

Applied AI & Agent Evaluation Research Assistant

PLACEMENT

HOST BUSINESSES

Raeburn Automation Labs / Raeburn Technologies / ClientMotive

T LEVEL SUBJECT CONNECTION

Digital Software Development / Digital Data Analytics

THE ROLE

Help evaluate useful, reliable AI features using evidence rather than demonstrations alone.

WHAT YOU WOULD WORK ON

- Develop safe prompt and task evaluation datasets
- Measure answer quality, latency, cost and failure modes
- Compare simple baselines with agent workflows
- Record hallucination and tool-use risks
- Present reproducible evaluation results

SAFE STARTER TASKS / FEEDER ACTIVITY

- Build a 30-case synthetic evaluation set
- Run a repeatable model comparison
- Classify common tool-use failures

EXAMPLE DELIVERABLES

- AI evaluation scorecard
- Reproducible benchmark and findings

SKILLS & KNOWLEDGE TO BUILD

- Python/JavaScript and data handling
- Evaluation methodology
- Prompt safety awareness
- Experiment documentation

SUCCESS EVIDENCE

- Metrics and datasets are reproducible
- Limitations and unsafe cases are visible

PROFESSIONAL BOUNDARIES

- No uncontrolled autonomous actions or customer-data uploads
- Human approval required for production AI behaviour

D06

SOFTWARE, DATA & AI / ROLE PROFILE

Data Engineering & BI Developer

PLACEMENT

HOST BUSINESSES

Raeburn Technologies / Raeburn Automation Labs / ClientMotive

T LEVEL SUBJECT CONNECTION

Digital Data Analytics / Digital Software Development

THE ROLE

Build trustworthy pathways from raw operational data to usable reporting and business decisions.

WHAT YOU WOULD WORK ON

- Clean and transform structured data
- Model source tables and define data grains
- Create validation and quality tests
- Build simple BI measures and visualisations
- Document lineage, missingness and refresh rules

SAFE STARTER TASKS / FEEDER ACTIVITY

- Deduplicate a synthetic CRM extract
- Write SQL quality checks
- Create a simple conversion dashboard

EXAMPLE DELIVERABLES

- Validated transformation pipeline
- Data dictionary and dashboard

SKILLS & KNOWLEDGE TO BUILD

- SQL and spreadsheets
- Python data processing
- Data-grain and join concepts
- Visual reporting and QA

SUCCESS EVIDENCE

- Row counts and reconciliations match
- Dashboard definitions are documented

PROFESSIONAL BOUNDARIES

- Use anonymised samples for student work
- No unreviewed migrations or production data edits

D07

SOFTWARE, DATA & AI / ROLE PROFILE

Quality Engineering & Test Automation Assistant

PLACEMENT

HOST BUSINESSES

Raeburn Technologies / Raeburn Automation Labs / ClientMotive

T LEVEL SUBJECT CONNECTION

Digital Software Development / Digital Support and Security

THE ROLE

Increase product reliability by turning real requirements and failures into repeatable acceptance evidence.

WHAT YOU WOULD WORK ON

- Write clear reproducible defect reports
- Implement unit, integration and browser tests
- Check accessibility and mobile edge cases
- Investigate flaky tests and shared fixtures
- Summarise regressions and release risk for reviewers

SAFE STARTER TASKS / FEEDER ACTIVITY

- Automate an existing regression scenario
- Test a form with screen-reader-friendly labels
- Reduce a flaky test with evidence

EXAMPLE DELIVERABLES

- Test suite additions and run receipt
- Bug reproduction notes and triage summary

SKILLS & KNOWLEDGE TO BUILD

- Test case design
- Git and CI fundamentals
- Browser debugging
- Accessibility and security basics

SUCCESS EVIDENCE

- Tests fail on the broken case and pass on fix
- Evidence links to exact version

PROFESSIONAL BOUNDARIES

- Never disable safeguards to make checks green
- Production release requires independent acceptance

D08

SOFTWARE, DATA & AI / ROLE PROFILE

Platform, DevOps & Observability Assistant

PLACEMENT

HOST BUSINESSES

Raeburn Technologies / Raeburn Automation Labs / Raeburn Communications

T LEVEL SUBJECT CONNECTION

Digital Support and Security / Digital Software Development

THE ROLE

Support dependable engineering by improving local CI, monitoring and operational runbooks in isolated environments.

WHAT YOU WOULD WORK ON

- Read CI job outputs and classify failures
- Improve build documentation and diagnostics
- Add health checks to test services
- Investigate resource-aware test execution
- Create operational runbooks and rollback checklists

SAFE STARTER TASKS / FEEDER ACTIVITY

- Add a synthetic service health check
- Summarise a failed CI run with evidence
- Document restart and rollback steps

EXAMPLE DELIVERABLES

- Reviewed monitoring or CI enhancement
- Evidence-based operations runbook

SKILLS & KNOWLEDGE TO BUILD

- Linux and shell fundamentals
- Containers and CI concepts
- Logging and observability
- Resource awareness

SUCCESS EVIDENCE

- Checks produce verifiable evidence
- Recovery instructions pass supervised rehearsal

PROFESSIONAL BOUNDARIES

- No privileged operations on production systems
- Jobs run in authorised isolated workers

RAEBURN
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03 / SIX DISCIPLINES

Zero-knowledge & secure protocols.

Explore verifiable computation, transparent proof systems and defensible payment security.



6 PROPOSED ROLE PROFILES

- Z01 Zero-Knowledge Proofs Research Assistant
- Z02 zk-SNARK Circuit Research Engineer
- Z03 zk-STARK / AIR / FRI Research Engineer
- Z04 Proof Verification & Performance Engineer
- Z05 Distributed Ledger & Consensus Research Engineer
- Z06 Applied Cryptography & Offline Payments Researcher

Z01

ZERO-KNOWLEDGE & PROTOCOLS / ROLE PROFILE

Zero-Knowledge Proofs Research Assistant

PLACEMENT / FEEDER

HOST BUSINESSES

Raeburn Digital Assets / Raeburn Technologies / Raeburn Automation Labs

T LEVEL SUBJECT CONNECTION

Digital Software Development / Digital Data Analytics

THE ROLE

Investigate zero-knowledge concepts and document demonstrable examples without treating educational proofs as security assurance.

WHAT YOU WOULD WORK ON

- Summarise zero-knowledge, soundness and completeness concepts
- Compare public documentation for proving systems
- Reproduce small tutorial examples in a sandbox
- Measure basic proof generation and verification timing
- Maintain assumptions, references and reproducibility notes

SAFE STARTER TASKS / FEEDER ACTIVITY

- Explain public input versus private witness
- Run a toy Sudoku or range-proof demo
- Compare outputs with and without malformed inputs

EXAMPLE DELIVERABLES

- Explainer with accurate diagrams
- Toy proof demo and benchmark log

SKILLS & KNOWLEDGE TO BUILD

- Mathematical curiosity and programming basics
- Source evaluation and reproducibility
- Careful threat-model vocabulary
- Experiment logging

SUCCESS EVIDENCE

- Toy example runs repeatably
- Claims stay within demonstrated guarantees

PROFESSIONAL BOUNDARIES

- Educational proofs never authorise money movement
- Production circuits require specialist review and formal verification

Z02

ZERO-KNOWLEDGE & PROTOCOLS / ROLE PROFILE

zk-SNARK Circuit Research Engineer

SPECIALIST / ADVANCED

HOST BUSINESSES

Raeburn Digital Assets / Raeburn Technologies

T LEVEL SUBJECT CONNECTION

Digital Software Development (feeder) / Digital Data Analytics (feeder)

THE ROLE

Design, test and scrutinise constraint systems for succinct proofs with explicit security assumptions and measurable cost.

WHAT YOU WOULD WORK ON

- Specify statements, witnesses and public inputs precisely
- Prototype circuits in an established audited toolchain
- Test under-constrained cases and invalid witnesses
- Compare setup assumptions, proving time and verifier costs
- Document circuit review and key-management requirements

SAFE STARTER TASKS / FEEDER ACTIVITY

- Feeder: write clear circuit requirements
- Feeder: run public tutorial circuits
- Feeder: maintain a benchmark table

EXAMPLE DELIVERABLES

- Circuit specification and audited test plan
- Reproducible proof-size and performance benchmark

SKILLS & KNOWLEDGE TO BUILD

- Finite fields and basic cryptography
- Constraint systems and circuit tests
- Rust or suitable ZK DSL
- Formal reasoning and secure review

SUCCESS EVIDENCE

- Negative tests reject invalid statements
- All setup trust assumptions are explicit

PROFESSIONAL BOUNDARIES

- Students do not design production security circuits
- No unchecked proofs, verification keys or trusted-setup ceremonies

Z03

ZERO-KNOWLEDGE & PROTOCOLS / ROLE PROFILE

zk-STARK / AIR / FRI Research Engineer

SPECIALIST / ADVANCED

HOST BUSINESSES

Raeburn Digital Assets / Raeburn Technologies / Raeburn Automation Labs

T LEVEL SUBJECT CONNECTION

Digital Software Development (feeder) / Digital Data Analytics (feeder)

THE ROLE

Research transparent proof constructions, arithmetic execution traces and practical trade-offs for verifiable computation.

WHAT YOU WOULD WORK ON

- Study algebraic intermediate representations and trace constraints
- Reproduce established FRI-based example provers
- Benchmark prover resources, proof size and verification cost
- Examine public randomness, hashing and configuration choices
- Prepare threat-model and implementation-assurance notes

SAFE STARTER TASKS / FEEDER ACTIVITY

- Feeder: draw an execution-trace diagram
- Feeder: reproduce public benchmark measurements
- Feeder: compare documented proof properties

EXAMPLE DELIVERABLES

- Research-grade AIR/FRI benchmark report
- Annotated configuration and assumptions register

SKILLS & KNOWLEDGE TO BUILD

- Algebra and algorithmic reasoning
- Rust/Python experimentation
- Benchmark methodology
- Hash assumptions and verification concepts

SUCCESS EVIDENCE

- Experiments are reproducible and bounded
- Trade-offs are evidenced, not asserted as universal

PROFESSIONAL BOUNDARIES

- No novel production proving scheme without expert review
- Benchmarking does not equal a cryptographic security audit

Z04

ZERO-KNOWLEDGE & PROTOCOLS / ROLE PROFILE

Proof Verification & Performance Engineer

ADVANCED / SPECIALIST

HOST BUSINESSES

Raeburn Digital Assets / Raeburn Technologies

T LEVEL SUBJECT CONNECTION

Digital Software Development (feeder) / Digital Data Analytics (feeder)

THE ROLE

Develop independent tests and performance evidence for proof verification, rejection handling and cost-aware deployment.

WHAT YOU WOULD WORK ON

- Map verifier inputs and expected trust boundaries
- Test malformed proof, version mismatch and replay cases
- Measure CPU, memory and proof-size costs
- Build deterministic benchmark harnesses in isolated compute
- Compare alternative verification approaches against requirements

SAFE STARTER TASKS / FEEDER ACTIVITY

- Feeder: create synthetic test vectors
- Feeder: measure memory usage with safe workloads
- Feeder: document a regression report

EXAMPLE DELIVERABLES

- Proof-verifier acceptance matrix
- Resource benchmark and recommended guardrails

SKILLS & KNOWLEDGE TO BUILD

- Test engineering and secure coding
- Profiling and reproducibility
- Crypto API literacy
- Resource admission and systems thinking

SUCCESS EVIDENCE

- Invalid proofs are demonstrably rejected
- Measurements include hardware and configuration

PROFESSIONAL BOUNDARIES

- No acceptance of real transactions from experimental verification
- No production trust decisions from performance data alone

Z05

ZERO-KNOWLEDGE & PROTOCOLS / ROLE PROFILE

Distributed Ledger & Consensus Research Engineer

ADVANCED / SPECIALIST

HOST BUSINESSES

Raeburn Digital Assets / Raeburn Technologies

T LEVEL SUBJECT CONNECTION

Digital Software Development (feeder) / Digital Data Analytics (feeder)

THE ROLE

Assess correctness and resilience of replicated-state protocols under realistic failure, recovery and network conditions.

WHAT YOU WOULD WORK ON

- Model validator roles, quorum and finality conditions
- Design partition, reorder and recovery test scenarios
- Compare liveness and safety trade-offs
- Inspect event logs and reproducible test receipts
- Research integrity, checkpointing and deterministic replay

SAFE STARTER TASKS / FEEDER ACTIVITY

- Feeder: build a finite-state visualisation
- Feeder: replay a synthetic network trace
- Feeder: document a failure matrix

EXAMPLE DELIVERABLES

- Consensus adversarial-test specification
- Reproducible synthetic-network report

SKILLS & KNOWLEDGE TO BUILD

- Distributed systems fundamentals
- Event ordering and fault models
- Python/Rust testing
- Clear systems documentation

SUCCESS EVIDENCE

- Tests distinguish safety from liveness
- No unverified production-finality claims

PROFESSIONAL BOUNDARIES

- No access to real customer settlement systems
- Protocol changes require independent engineering and security review

Z06

ZERO-KNOWLEDGE & PROTOCOLS / ROLE PROFILE

Applied Cryptography & Offline Payments Researcher

ADVANCED / SPECIALIST

HOST BUSINESSES

Raeburn Digital Assets / Raeburn Technologies

T LEVEL SUBJECT CONNECTION

Digital Software Development (feeder) / Digital Support and Security (feeder)

THE ROLE

Research cryptographic identity, signatures, secure messaging and offline-value risk without overstating guarantees.

WHAT YOU WOULD WORK ON

- Describe adversaries and device-loss risks explicitly
- Prototype standards-based signing and encryption in test rigs
- Map key rotation, expiry, replay and double-spend controls
- Test failure modes under network disconnection
- Review published protocol constructions and their limits

SAFE STARTER TASKS / FEEDER ACTIVITY

- Feeder: diagram a key lifecycle
- Feeder: test an authenticated toy message exchange
- Feeder: research offline double-spend trade-offs

EXAMPLE DELIVERABLES

- Threat model with key-lifecycle diagram
- Standards-based synthetic protocol test report

SKILLS & KNOWLEDGE TO BUILD

- Cryptographic primitives and key hygiene
- Protocol modelling and safe test data
- Network failure thinking
- Scientific caution

SUCCESS EVIDENCE

- Adversaries and assumptions are enumerated
- Tests cover rejection and recovery, not just success

PROFESSIONAL BOUNDARIES

- Never invent own primitives for production
- No live offline-value issuance or customer key custody

RAEBURN
GROUP

04 / SIX DISCIPLINES

Security, privacy & assurance.

Defensive security, safe software engineering and clear evidence for critical systems.



5 PROPOSED ROLE PROFILES

- S01 Security Operations & Threat Intelligence Analyst
- S02 Application Security & Secure Code Assistant
- S03 Privacy Engineering & Data Protection Research Assistant
- S04 Protocol Security & Adversarial Testing Engineer
- S05 Cloud, IAM & Infrastructure Security Assistant

S01

SECURITY & ASSURANCE / ROLE PROFILE

Security Operations & Threat Intelligence Analyst

PLACEMENT

HOST BUSINESSES

Raeburn Technologies / Raeburn Communications / The Raeburn Holding Group

T LEVEL SUBJECT CONNECTION

Digital Support and Security / Digital Data Analytics

THE ROLE

Support lawful, defensive monitoring, triage and security awareness through controlled datasets and clearly documented evidence.

WHAT YOU WOULD WORK ON

- Categorise simulated alerts by severity and confidence
- Review public threat intelligence and relevant indicators
- Build security event timelines
- Prepare incident handover and containment checklists
- Recommend observable hardening improvements

SAFE STARTER TASKS / FEEDER ACTIVITY

- Classify a synthetic phishing alert
- Write an incident timeline from sample logs
- Prepare a patch-priority briefing

EXAMPLE DELIVERABLES

- Defensive alert-triage report
- Threat intelligence note with verified sources

SKILLS & KNOWLEDGE TO BUILD

- Logs, networking and identity basics
- Analytical reasoning
- Incident communication
- Source quality assessment

SUCCESS EVIDENCE

- False positives are considered
- Handover separates evidence from hypotheses

PROFESSIONAL BOUNDARIES

- No access to customer secrets or live incident command
- No intrusive scanning or offensive activity

S02

SECURITY & ASSURANCE / ROLE PROFILE

Application Security & Secure Code Assistant

PLACEMENT / STRETCH

HOST BUSINESSES

Raeburn Technologies / ClientMotive / Raeburn Automation Labs

T LEVEL SUBJECT CONNECTION

Digital Software Development / Digital Support and Security

THE ROLE

Improve software safety by checking defined risks, secure coding patterns and regression controls in supervised environments.

WHAT YOU WOULD WORK ON

- Review input validation and authorisation test coverage
- Reproduce deliberately vulnerable examples in a lab
- Check dependency alerts and patch evidence
- Help write secure coding and threat-modelling documentation
- Add regression tests for reviewed vulnerabilities

SAFE STARTER TASKS / FEEDER ACTIVITY

- Write a safe access-control test
- Create a dependency triage table
- Explain a harmless lab vulnerability and fix

EXAMPLE DELIVERABLES

- Reviewed secure-code test and finding
- Remediation evidence and validation checklist

SKILLS & KNOWLEDGE TO BUILD

- OWASP principles and test design
- Git and code review
- Authentication and authorisation basics
- Precise security reporting

SUCCESS EVIDENCE

- Negative tests block unauthorised paths
- Findings have a demonstrated remediation

PROFESSIONAL BOUNDARIES

- Work only on authorised code and isolated targets
- Do not publish exploit details or run production scans

S03

SECURITY & ASSURANCE / ROLE PROFILE

Privacy Engineering & Data Protection Research Assistant

PLACEMENT

HOST BUSINESSES

The Raeburn Holding Group / Raeburn Digital Assets / ClientMotive

T LEVEL SUBJECT CONNECTION

Legal Services / Digital Support and Security / Management and Administration

THE ROLE

Help teams design minimised, understandable and controlled personal-data processing.

WHAT YOU WOULD WORK ON

- Map sample data flows and retention points
- Create privacy-by-design review checklists
- Research lawful processing and technical controls
- Analyse consent and data-subject workflow usability
- Document privacy risks with practical mitigations

SAFE STARTER TASKS / FEEDER ACTIVITY

- Build a fictitious data-flow map
- Review a sample retention schedule
- Evaluate a synthetic consent interface

EXAMPLE DELIVERABLES

- Data-flow inventory and risk register
- Plain-English privacy impact briefing

SKILLS & KNOWLEDGE TO BUILD

- UK GDPR foundations
- Process mapping
- Security hygiene
- Evidence-led policy research

SUCCESS EVIDENCE

- Processing assumptions are traceable
- Risks have an owner and practical mitigations

PROFESSIONAL BOUNDARIES

- Do not provide legal advice or decide legal bases
- No exposure to special-category real data without controls

S04

SECURITY & ASSURANCE / ROLE PROFILE

Protocol Security & Adversarial Testing Engineer

ADVANCED / SPECIALIST

HOST BUSINESSES	T LEVEL SUBJECT CONNECTION
Raeburn Digital Assets / Raeburn Technologies	Digital Support and Security (feeder) / Digital Software Development (feeder)

THE ROLE

Develop controlled adversarial acceptance evidence for money, identity and cryptographic systems.

WHAT YOU WOULD WORK ON

- Build attacker and defender capability models
- Design replay, rollback, partition and race-condition tests
- Check proof, signature and state-transition validation
- Investigate potential invariant violations
- Prepare reproducible security findings and fix verification

SAFE STARTER TASKS / FEEDER ACTIVITY

- Feeder: document a hypothetical abuse case
- Feeder: classify synthetic failing tests
- Feeder: map a privilege boundary

EXAMPLE DELIVERABLES

- Adversarial acceptance suite
- Risk-ranked findings with verified remediation

SKILLS & KNOWLEDGE TO BUILD

- Threat modelling and secure testing
- Distributed systems reasoning
- Cryptography implementation awareness
- Evidence preservation

SUCCESS EVIDENCE

- Key safety invariants are testable
- No false assertion of independent assurance

PROFESSIONAL BOUNDARIES

- Only authorised private environments
- External code review remains a separate release gate

S05

SECURITY & ASSURANCE / ROLE PROFILE

Cloud, IAM & Infrastructure Security Assistant

PLACEMENT / STRETCH

HOST BUSINESSES

Raeburn Technologies / Raeburn Communications / The Raeburn Holding Group

T LEVEL SUBJECT CONNECTION

Digital Support and Security / Digital Software Development

THE ROLE

Help make cloud infrastructure observable and secure through least-privilege review and controlled configuration tests.

WHAT YOU WOULD WORK ON

- Inventory test services and their dependencies
- Document role-based access boundaries
- Check synthetic secret-scanning and audit events
- Help verify TLS, backups and recovery instructions
- Review deployment and rollback documentation

SAFE STARTER TASKS / FEEDER ACTIVITY

- Analyse a sample IAM policy
- Validate a lab HTTPS configuration
- Create a secrets-handling checklist

EXAMPLE DELIVERABLES

- Infrastructure access map
- Configuration review and rollback evidence

SKILLS & KNOWLEDGE TO BUILD

- Linux/cloud fundamentals
- Identity and access concepts
- Secrets management awareness
- Configuration documentation

SUCCESS EVIDENCE

- Permission boundaries are understandable
- Recovery steps are tested in a lab

PROFESSIONAL BOUNDARIES

- No privileged access to live machines or secrets
- All changes require operator approval and audit logs

RAEBURN
GROUP

05 / SIX DISCIPLINES

Marketing, sales & commercial growth.

Research customers, tell useful stories and measure genuine commercial results.



5 PROPOSED ROLE PROFILES

- M01 Digital Growth Marketing Assistant
- M02 Content, Media & Editorial Research Assistant
- M03 SEO, Content Performance & Web Analytics Assistant
- M04 B2B Business Development & Partnerships Assistant
- M05 Product Marketing & Customer Research Assistant

M01

MARKETING & GROWTH / ROLE PROFILE

Digital Growth Marketing Assistant

PLACEMENT

HOST BUSINESSES

The Raeburn Holding Group / Raeburn Commerce / Raeburn Services / Raeburn Ventures

T LEVEL SUBJECT CONNECTION

Marketing / Management and Administration

THE ROLE

Help plan, execute and evaluate clear, ethical digital campaigns that connect products with relevant audiences.

WHAT YOU WOULD WORK ON

- Research audiences and channel suitability
- Support email, social and landing-page content
- Prepare UTM conventions and campaign calendars
- Report engagement, conversion and acquisition metrics
- Run small approved content tests and summarise learning

SAFE STARTER TASKS / FEEDER ACTIVITY

- Build a four-week campaign plan
- Audit a sample landing-page journey
- Create a campaign KPI dashboard

EXAMPLE DELIVERABLES

- Channel plan and creative brief
- Performance report with next-step recommendations

SKILLS & KNOWLEDGE TO BUILD

- Digital campaign fundamentals
- Copywriting and analytics
- Spreadsheet reporting
- Accessibility and consent principles

SUCCESS EVIDENCE

- Performance uses explicit definitions
- Recommendations follow observed results

PROFESSIONAL BOUNDARIES

- No unsolicited bulk messaging or unapproved paid spend
- Respect consent, data protection and brand review

M02

MARKETING & GROWTH / ROLE PROFILE

Content, Media & Editorial Research Assistant

PLACEMENT

HOST BUSINESSES

Raeburn Media & Intelligence / Raeburn Communications / The Raeburn Holding Group

T LEVEL SUBJECT CONNECTION

Marketing / Media, Broadcast and Production

THE ROLE

Make useful, accurate multi-format content from credible research and a consistent editorial voice.

WHAT YOU WOULD WORK ON

- Research stories, audiences and subject-matter experts
- Draft articles, scripts and newsletter outlines
- Source and credit permissible imagery
- Edit for clarity, accessibility and factual precision
- Track editorial calendars and audience response

SAFE STARTER TASKS / FEEDER ACTIVITY

- Prepare a fact-checked technology explainer
- Write a 60-second video script
- Create an image rights/source log

EXAMPLE DELIVERABLES

- Edited editorial pack
- Content schedule and verification checklist

SKILLS & KNOWLEDGE TO BUILD

- Journalistic source checking
- Writing and storytelling
- Basic media production
- Accessibility and copyright literacy

SUCCESS EVIDENCE

- Key claims are sourced
- Content follows editorial and style review

PROFESSIONAL BOUNDARIES

- Do not publish private or confidential information
- No unverified claims, invented interviews or copied imagery

M03

MARKETING & GROWTH / ROLE PROFILE

SEO, Content Performance & Web Analytics Assistant

PLACEMENT

HOST BUSINESSES

Raeburn Commerce / Raeburn Services / Raeburn Media & Intelligence / ClientMotive

T LEVEL SUBJECT CONNECTION

Marketing / Digital Data Analytics

THE ROLE

Improve discoverability and user journeys using ethical SEO, accessible content and reliable measurement.

WHAT YOU WOULD WORK ON

- Audit page structure, titles and internal links
- Research search intent and content gaps
- Analyse engagement and technical health metrics
- Create structured improvement backlogs
- Report changes with seasonality and attribution caveats

SAFE STARTER TASKS / FEEDER ACTIVITY

- Create a simple keyword-to-page map
- Audit a sample site for accessibility/SEO basics
- Build a traffic trend workbook

EXAMPLE DELIVERABLES

- SEO audit and prioritised backlog
- Before/after measurement report

SKILLS & KNOWLEDGE TO BUILD

- Search intent and content design
- Analytics and data quality
- HTML fundamentals
- Evidence-based prioritisation

SUCCESS EVIDENCE

- Findings are reproducible
- Recommendations avoid manipulative search tactics

PROFESSIONAL BOUNDARIES

- No guarantee of rankings or traffic
- No production site edits without content and technical approval

M04

MARKETING & GROWTH / ROLE PROFILE

B2B Business Development & Partnerships Assistant

PLACEMENT

HOST BUSINESSES

The Raeburn Holding Group / The Raeburn Consulting Group / TRG Recruitment / Raeburn Technologies

T LEVEL SUBJECT CONNECTION

Marketing / Management and Administration

THE ROLE

Help identify relevant organisations, understand their needs and support professional, personalised partnership conversations.

WHAT YOU WOULD WORK ON

- Research target sectors and buyer pain points
- Develop account briefs and contact-quality checks
- Support discovery question design and proposal materials
- Maintain accurate CRM notes and next actions
- Analyse response and pipeline progression ethically

SAFE STARTER TASKS / FEEDER ACTIVITY

- Write a sector prospect brief
- Build a sample account map
- Draft an internal proposal one-pager

EXAMPLE DELIVERABLES

- Qualified account research pack
- CRM workflow and pipeline analysis

SKILLS & KNOWLEDGE TO BUILD

- Commercial research and communication
- CRM literacy
- Proposal writing
- Data protection and business etiquette

SUCCESS EVIDENCE

- Prospect data has lawful provenance
- Outreach quality and outcomes are measured fairly

PROFESSIONAL BOUNDARIES

- No unsupervised sales promises, pricing or contracts
- Outreach only through approved channels and permissions

M05

MARKETING & GROWTH / ROLE PROFILE

Product Marketing & Customer Research Assistant

PLACEMENT

HOST BUSINESSES

Raeburn Ventures / ClientMotive / Raeburn Technologies / Raeburn Digital Assets

T LEVEL SUBJECT CONNECTION

Marketing / Digital Data Analytics / Management and Administration

THE ROLE

Connect user problems, product value and commercial positioning through structured research and testing.

WHAT YOU WOULD WORK ON

- Interview or analyse consenting research participants
- Map competing offerings and alternatives
- Draft value propositions and feature explanations
- Build product launch and feedback plans
- Turn evidence into actionable product decisions

SAFE STARTER TASKS / FEEDER ACTIVITY

- Compare competitor onboarding journeys
- Write a product persona from anonymised research
- Test two explanatory headlines

EXAMPLE DELIVERABLES

- Product positioning brief
- Customer insights and validated messaging matrix

SKILLS & KNOWLEDGE TO BUILD

- Customer discovery
- Product communication
- Quantitative and qualitative analysis
- Research ethics and accessibility

SUCCESS EVIDENCE

- Claims are tied to evidence
- Feedback meaningfully changes recommendations

PROFESSIONAL BOUNDARIES

- No misleading financial-product marketing
- Participants consent and personal data is minimised

RAEBURN
GROUP

06 / SIX DISCIPLINES

Research, policy & innovation.

Ask better questions, verify claims and transform research into decisions.



5 PROPOSED ROLE PROFILES

- R01 Market & Competitor Intelligence Research Assistant
- R02 Emerging AI & Open-Source Technology Researcher
- R03 Financial Inclusion & Payments Policy Researcher
- R04 UX, Accessibility & Human-Centred Product Researcher
- R05 Risk, Legal & Regulatory Research Assistant

R01

RESEARCH & INNOVATION / ROLE PROFILE

Market & Competitor Intelligence Research Assistant

PLACEMENT

HOST BUSINESSES

The Raeburn Consulting Group / Raeburn Ventures / Raeburn Media & Intelligence

T LEVEL SUBJECT CONNECTION

Digital Data Analytics / Marketing / Management and Administration

THE ROLE

Turn scattered public signals into balanced commercial intelligence for product and business decisions.

WHAT YOU WOULD WORK ON

- Map competitor features, prices and limitations
- Examine public reviews for recurring problems
- Distinguish marketing claims from verified capabilities
- Track sector and regulatory developments
- Prepare decision briefs with opportunities and constraints

SAFE STARTER TASKS / FEEDER ACTIVITY

- Compare three alternatives on a defined use case
- Create a source-verification ledger
- Write a one-page customer-gap brief

EXAMPLE DELIVERABLES

- Competitor matrix with citations
- Commercial opportunity memo

SKILLS & KNOWLEDGE TO BUILD

- Market research and analytical writing
- Source corroboration
- Basic pricing analysis
- Clear recommendations

SUCCESS EVIDENCE

- Comparison criteria are consistent
- Unverified assertions are flagged

PROFESSIONAL BOUNDARIES

- Respect terms, copyright and confidential materials
- No fabricated review counts or unverified market-size estimates

R02

RESEARCH & INNOVATION / ROLE PROFILE

Emerging AI & Open-Source Technology Researcher

PLACEMENT / STRETCH

HOST BUSINESSES

Raeburn Technologies / Raeburn Automation Labs / Raeburn Ventures

T LEVEL SUBJECT CONNECTION

Digital Software Development / Digital Data Analytics

THE ROLE

Evaluate new models and tools for practical usefulness, cost, licensing, maintainability and technical risk.

WHAT YOU WOULD WORK ON

- Monitor primary release notes and research publications
- Compare documented technical capabilities
- Benchmark lightweight examples on approved hardware
- Review software licences and operational dependencies
- Create adoption recommendations with explicit trade-offs

SAFE STARTER TASKS / FEEDER ACTIVITY

- Compare two open-source libraries for one function
- Reproduce a published simple benchmark
- Prepare a licence and dependency risk note

EXAMPLE DELIVERABLES

- Technology evaluation scorecard
- Reproducible experiment and adoption decision

SKILLS & KNOWLEDGE TO BUILD

- Reading technical documentation
- Benchmark design
- Basic licensing awareness
- Cost and resource analysis

SUCCESS EVIDENCE

- Claims trace to published evidence
- Experiments include environment and version

PROFESSIONAL BOUNDARIES

- No unreviewed packages or model downloads on production systems
- No publication of protected code or secrets

R03

RESEARCH & INNOVATION / ROLE PROFILE

Financial Inclusion & Payments Policy Researcher

PLACEMENT / STRETCH

HOST BUSINESSES

Raeburn Digital Assets / The Raeburn Consulting Group / Raeburn Impact

T LEVEL SUBJECT CONNECTION

Digital Data Analytics / Management and Administration / Legal Services

THE ROLE

Research barriers to affordable, accessible financial services and assess possible solutions with cultural and regulatory care.

WHAT YOU WOULD WORK ON

- Compare public remittance costs and payment access data
- Review access barriers for rural and low-connectivity users
- Study accessible and inclusive product design
- Summarise jurisdiction-specific public guidance
- Build evidence-based policy and product briefs

SAFE STARTER TASKS / FEEDER ACTIVITY

- Map a public remittance cost dataset
- Document an offline-access user journey
- Research a published consumer protection policy

EXAMPLE DELIVERABLES

- Financial inclusion research brief
- Accessibility and policy opportunity map

SKILLS & KNOWLEDGE TO BUILD

- Economic and policy research
- Data analysis
- Inclusive design thinking
- Cautious regulatory interpretation

SUCCESS EVIDENCE

- Jurisdictions and dates are stated
- User needs are not assumed from stereotypes

PROFESSIONAL BOUNDARIES

- No personal financial or legal advice
- No implication of regulatory approval for proposed services

R04

RESEARCH & INNOVATION / ROLE PROFILE

UX, Accessibility & Human-Centred Product Researcher

PLACEMENT

HOST BUSINESSES

Raeburn Technologies / ClientMotive / Raeburn Impact / Raeburn Communications

T LEVEL SUBJECT CONNECTION

Digital Software Development / Marketing / Digital Data Analytics

THE ROLE

Make digital services easier to understand and use, including for people with disabilities or limited connectivity.

WHAT YOU WOULD WORK ON

- Plan consent-based usability studies
- Audit journeys for assistive technology needs
- Map friction points and recovery experiences
- Test information architecture and content clarity
- Create prioritised findings for product teams

SAFE STARTER TASKS / FEEDER ACTIVITY

- Conduct a supervised five-task usability test
- Audit keyboard and zoom behaviour
- Prototype a clearer error state

EXAMPLE DELIVERABLES

- Usability evidence pack
- Accessible design recommendations with priorities

SKILLS & KNOWLEDGE TO BUILD

- Research methods and ethics
- WCAG fundamentals
- Prototyping and visual communication
- Observation and synthesis

SUCCESS EVIDENCE

- Findings are anchored to observations
- Recommendations are feasible and testable

PROFESSIONAL BOUNDARIES

- No covert tracking or inaccessible consent processes
- Protect participant identities and support needs

R05

RESEARCH & INNOVATION / ROLE PROFILE

Risk, Legal & Regulatory Research Assistant

PLACEMENT

HOST BUSINESSES

The Raeburn Holding Group / Raeburn Paralegal Services / Raeburn Welfare Advocates / Raeburn Digital Assets

T LEVEL SUBJECT CONNECTION

Legal Services / Management and Administration / Digital Data Analytics

THE ROLE

Provide carefully sourced regulatory and governance research to qualified decision-makers without giving unsupervised advice.

WHAT YOU WOULD WORK ON

- Track official legal and regulatory publications
- Prepare dated summaries of proposed and active requirements
- Map internal processes against policy controls
- Maintain evidence logs and due-date trackers
- Escalate ambiguities to legal/compliance reviewers

SAFE STARTER TASKS / FEEDER ACTIVITY

- Build a published-guidance comparison
- Create a compliance evidence checklist
- Summarise a regulatory consultation

EXAMPLE DELIVERABLES

- Dated source-led compliance briefing
- Controls and evidence register

SKILLS & KNOWLEDGE TO BUILD

- Legal research discipline
- Document control and casework
- Critical reading
- Clear risk escalation

SUCCESS EVIDENCE

- Each statement has jurisdiction/date/source
- Open questions have named reviewers

PROFESSIONAL BOUNDARIES

- No reserved legal activities or legal advice
- No independent compliance sign-off or sensitive case decisions

03 / FROM PROFILE TO REAL PLACEMENT

Make the opportunity real.

The catalogue describes work that Raeburn businesses could host. Before any role is offered to a student, the college and Raeburn should agree a named supervisor, real tasks, safeguarding and learning outcomes.

01 **Select the profile**

Agree the relevant T Level pathway, learner needs and occupational context.

02 **Confirm capacity & named lead**

Verify work exists, the supervising professional is available and devices/access are suitable.

03 **Design safe work**

Select tasks, exclude regulated and high-risk activities and agree data permissions.

04 **Agree placement model**

Set hours, on-site/remote split, attendance, contact frequency and reasonable adjustments.

05 **Record evidence**

Provide regular feedback, check-ins, witnessed work and a college-approved review method.

06 **Approve before advertising**

College and employer sign off the actual placement, location, hours, costs and safeguarding.

04 / SAFEGUARDS, SOURCES & APPLICATION

Professional standards first.

INDUSTRY PLACEMENT REQUIREMENTS

T Level placements normally require at least 315 hours, with different requirements for specified specialisms. They require employer-led tasks, agreed learning objectives and ongoing provider review. Remote delivery can be used subject to the current provider guidance and college approval.

SPECIALIST CRYPTOGRAPHY

Zero-knowledge, consensus, offline-value and security-critical tasks must not be presented as entry-level production responsibilities. Feeder tasks can include reading, toy proofs, isolated benchmarks and reproducible tests. Specialist sign-off and independent review are separate.

RECRUITMENT & INFORMATION

This is a speculative role-library catalogue, not a vacancy board. No payment, salary, places, start dates, work location or working model is promised. Host company, legal employing entity, supervision and contractual terms must be confirmed before use as a live JD.

INCLUSION & ACCESSIBILITY

Match the placement to individual needs. Support accessible tools, realistic travel arrangements, assistive technology, appropriate induction, data minimisation and reasonable adjustments. Student safety and learning must take precedence over deliverables.

REFERENCE GUIDANCE

DfE industry placement guidance: www.gov.uk/government/publications/t-level-industry-placements-guidance-for-providers | T Level subjects: www.tlevels.gov.uk/students/subjects | ZK overview: ethereum.org/zero-knowledge-proofs