



EDINBURGH
GENETICS

LIFE SCIENCE INTERN

AT EDINBURGH GENETICS, WE CREATE CUSTOMISED LIFE SCIENCE SOLUTIONS, FROM SUPPLYING A FULL RANGE OF INNOVATIVE GENETIC RESEARCH DEVICES, LIBRARY SYSTEMS AND REAGENTS, TO PROVIDING COMPLEX NEXT GENERATION SEQUENCING (NGS) RESEARCH SERVICES. IT IS OUR MISSION TO DELIVER FLEXIBLE AND COST-EFFECTIVE SOLUTIONS TO MEET THE NEEDS OF SCIENTISTS CONDUCTING CUTTING-EDGE RESEARCH.

AS AN ISO 13485:2016 CERTIFIED MANUFACTURER, WE HAVE BEEN DEVELOPING HIGH QUALITY, INNOVATIVE AND ACCESSIBLE IVD DEVICES THAT ARE USED CLINICALLY IN COUNTRIES AROUND THE WORLD.

Application close date: 9th July 2021

Estimated start date: 12th - 19th July 2021

Duration: 8 weeks with potential to extend to full time

Salary: Competitive

Location: Remote working or space in Penicuik Science Park as preferred

About the role

The role involves assisting the management team in setting up new laboratory premises in Edinburgh. The selected candidate will be involved in the planning of NGS research projects and documentation of sequencing protocols. You will potentially have the opportunity to be published in peer review articles.

Requirements/qualifications

- Graduate or current student of a masters or Phd programme in Biomedical Science or Biological Sciences.
- Biological lab experience required.
- Good multi-tasking, time management and organisational skills are required.
- The ability to follow SOPs, policies, and regulations.
- Attention to detail and strong verbal and written communication skills are also necessary.
- Knowledge of next generation sequencing, including a variety of NGS applications, and a working knowledge of bioinformatics as well as qPCR.
- Skilled in the interpretation of NGS data and troubleshooting of molecular biology, sequencing and data analysis issues.
- Experience costing NGS projects.
- Require right to work in the UK

Education: Bachelor's or Master's degree or equivalent in Biological Sciences or Biomedical sciences.

Desirable qualities:

- European language skills

TO APPLY EMAIL YOUR CV AND ANSWER TO THE QUESTION BELOW TO CAREERS@EGGENETICS.COM (COVER LETTER OPTIONAL)

We aim to be an equal opportunities employer and we are determined to ensure that no applicant or employee receives less favourable treatment on the grounds of gender, age, disability, religion, belief, sexual orientation, marital status, or race, or is disadvantaged by conditions or requirements which cannot be shown to be justifiable.

Required application question

(fill out word doc attached)



Project overview

This project is to identify rare genetic mutations that are likely to be biologically informative in understanding the molecular etiology of psychiatric disease. The initial phase of the project whole genome sequencing of 192 samples from human DNA. The technical requirements of the proposal are:

- Illumina TruSeq Nano library prep
- PCR-based sequencing
- Paired end reads of 150bp
- 30x coverage

Answer the questions below ensuring to specify minimum DNA quantity per sample and the typical sample characteristics required for analysis including recommended volumes and concentrations.

Question

1. Provide a detailed plan outlining the processes and steps involved in service delivery from sample collection to data generation and delivery. State your assumptions about equipment/machines used.
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Scoring Criteria

Criteria	Weighting
Quality of Proposed Service Delivery Model <ul style="list-style-type: none"> • Sequencing Process Specifications • Sequence Data • DNA Quantity & Qualification • Data Storage • Sample Requirements inc. storage 	<u>70%</u>
Service Quality <ul style="list-style-type: none"> • Timelines • Technical Service Delivery Plan • Quality Controls • Reporting/review mechanism 	<u>30%</u>

Scoring Methodology	
Score	Meaning
5	Excellent response that fully meets and exceeds the minimum requirements, and provides very comprehensive and detailed information
4	A very good response that meets the minimum requirements and exceeds them in some respects.
3	A satisfactory response which demonstrates a reasonable understanding of minimum requirements and gives reasonable assurance of delivery to an adequate standard.
2	A response where reservations exist. Lacks full credibility/convincing detail, and does not provide confidence.
1	A response where serious reservations exist. This may be because, for example, insufficient detail is provided, or the response has fundamental flaws, or is seriously inadequate or seriously lacks credibility with a high risk of non-delivery.
0	No response or partial response only and poor evidence provided in support of it: failure to meet the requirements.
Note: Scores will be awarded on the basis of whole numbers only.	