

# Hannah Elizabeth Petrie

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## Profile

Passionate and focused Geologist seeking a new career direction within renewable energy. Experience includes 3D seismic interpretation, geophysical techniques, core and well data analysis, report writing and collaboration across multiple disciplines and stakeholders. I am an honest and caring person who enjoys contributing to the success of the team and helping others. I understand Norwegian, and am working hard on improving my speaking. I take pride in producing high quality work and strive to create new ideas and opportunities for the energy sector. I would like to use my experience in Petroleum Geology to contribute towards the low carbon energy transition, whilst diversifying my geological and professional skill set and network.

## Work Experience

**SENIOR GEOSCIENTIST (Equinor Geo-Operations Centre) 2019-2020**

**Responsibilities:** - Onshore shift work providing geological support to rig crews during drilling of production wells

- Ensuring that geological challenges are handled safely and efficiently

**Key Skills:** - Communicating key geological information to drilling engineers

- Organisation (multiple rigs, wells, geological risks and reservoir requirements)
- Collaboration (Detailed shift handovers, close communication with the driller offshore)

**EXPLORATION GEOLOGIST (Statoil/Equinor) 2015-2019**

**Responsibilities:** - Detailed geological and geophysical work (seismic interpretation, analyses of wells)

- Prospect analysis (source, reservoir, trap, seal), presenting geological models
- License work (writing NPD license applications, writing relinquishment memos, meeting with partners, presenting recommendations to management)

**Key Skills:** - Interpreting, integrating and archiving large datasets (seismic, well data, literature, regional studies)

- Assessing data quality (evaluating seismic artefacts caused by variations in acoustic impedance at seabed/overburden level)
- Depositional models, paleogeographic reconstructions
- Quantifying geological uncertainties (e.g. estimating clastic reservoir characteristics based on offset well data and seismic amplitude versus offset)

**Key Projects:** - Shallow Gas Initiative 2017-2018: Regional study of Plio-Pleistocene prospectivity in the Northern North Sea. Regional mapping of glacial deposits and estimating sand thickness, quality, geometry and fluid fill. Interpretation and integration of 3D broadband seismic, shallow cores and electromagnetic data. Presented a poster session to the Senior Vice President of Exploration.

- License Application Writing 2016-2018: Contributor and editor to applications submitted to the Norwegian Petroleum Directorate. Scientific writing, meeting strict deadlines and understanding business strategy.

**IT & Software:** Petrel (seismic software), GeoTeric (spectral decomposition), ArcGIS

**Other Activities:** -Promoting the Statoil Graduate Programme, presentation at UiB and advertising video campaign.

**MSc Project at Statoil UK, London**

**2014**

Seismic-based project within the Greenland & Faroes exploration team at Statoil UK. Distinction grade 15,000 word thesis comprising a depositional model for the Palaeocene of the Melville Graben, offshore NW Greenland (including mapping of glacial features on the seabed).

## Education and Qualifications

### UNIVERSITY OF ABERDEEN

Jan 2019 - Present

MSc RENEWABLE ENERGY ENGINEERING (Part-time Individual Subject Study, Online)

**Modules completed:** Legislation, Economics and Safety (A), Energy from Biomass (A), Electrical Systems for Renewable Energy (B)

**Key Topics:** EU & UK Energy Policy, UK Wind farm legislation, Project Management

### IMPERIAL COLLEGE

2013-2014

MSc PETROLEUM GEOSCIENCE with DISTINCTION

### UNIVERSITY OF EDINBURGH

2009-2013

BSc GEOLOGY (First Class Honours & Class Medal)

## Interests

**Bergen Chamber Choir (2015-2018):** I enjoy team work to prepare for concerts. I also joined the choir to improve my Norwegian.

**Fitness:** I enjoy hiking, skiing, running and doing yoga in my spare time.

## Referees

**MSc Thesis Supervisor:** Chris Jackson

**Email:** c.jackson@imperial.ac.uk

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**Previous Line Manager:** Jim Daniels, Leader Exploration, Equinor

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