

# Capacity building for offshore development – a Robert Gordon University perspective

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# Approach



**Why Aberdeen and Robert Gordon University?**



**RGU's approach to capacity benchmarking  
and skills development planning**

**TRAINING**



**RGU's approach to addressing the skills gap**



**Marine Pioneers of the Future  
RGU-Nippon Foundation pilot Summer School**

# Aberdeen - a leading energy hub



- Skilled workforce supporting UK and international operations
- Over 2,300 supply chain companies supporting the Industry
- World leader in asset management, project management and subsea engineering
- Largest concentration of oil & gas companies outside Houston
- Universities collaborating closely with industry
- Developing world-class Oil & Gas Technology Centre (\$234m investment)

# Robert Gordon University - a world class reputation



- **Over 96% of graduates are employed within 6 months**
- **Specialism in energy** including drilling, wells, subsea engineering, project management, asset integrity, business management and remote health
- **Expertise and connections with energy industry for 40 years**
  - Industry practitioners as tutors and advisers
  - Courses accredited by professional bodies
  - 90% of students accessing work placements
  - Joint ventures with industry
  - Provide Industry access to RGU's world-class simulators
- **Industry advisors and experts in field**
  - Regular industry commentary and thought-leadership
  - Industry solutions-focussed research
  - Consultancy to international Governments and companies on capacity benchmarking and skills development



# Capacity benchmarking and skills development

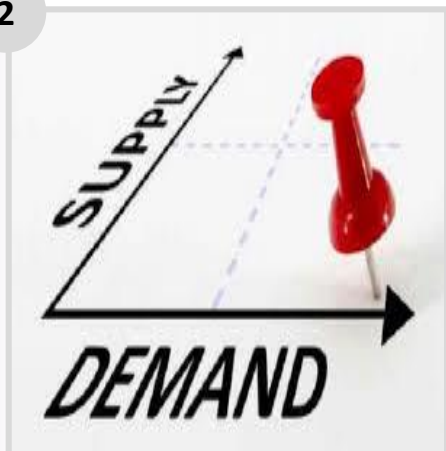


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- Benchmark and model business performance against industry norms
- Review forecasted skills gap
- Translate skills gaps into specific demand requirements








2



- Review existing education & training provision for the sector
- Review approaches undertaken to meet skills gaps internationally and identify best practice
- Provide high level recommendations and a framework to address skill gap challenges



# Capacity building for the marine sector - examples


	UK	Algeria	Russia	Venezuela	India	Mexico	Japan
							
Skills Framework				✓	✓	✓	
Short courses	✓	✓			✓	✓	✓
Masters Programmes	✓	✓	✓	✓		✓	
PhDs	✓	✓					
Leadership programmes	✓	✓				✓	
Train the trainer	✓	✓	✓			✓	
Partnerships	✓	✓	✓			✓	✓
Business to business	✓	✓		✓		✓	
Scholarships/ recruitment	✓				✓	✓	



# Addressing the skills gap for the marine sector







## Engineering & IT

- Oil and Gas Engineering (Offshore)
- Drilling and Well Engineering
- Petroleum Production Engineering
- Subsea Engineering
- Asset Integrity
- Instrumental Analytical Science Oilfield Chemicals
- IT for the Oil and Gas Industry
- Commercial Practice for the Energy Sectors
- Energy and Sustainability
- Offshore Renewables

















## Business Management

- MBA Oil and Gas Management
- Oil and Gas Law
- Oil and Gas Accounting and Finance
- Health, Safety and Risk Assessment
- Project Management
- Purchasing and Supply Chain Management
- Corporate Social Responsibility in Energy

# Marine Pioneers of the Future

## - Nippon Foundation pilot summer school at RGU

### The programme

- Introduction to marine energy/offshore engineering
- 4 week programme in September 2016
- International dimension
- English language
- Up to 15 students



### Delivered:

- 4 week school in Aberdeen and Orkney Islands for 15 students from 9 universities
- Covering: introduction to marine energy – renewables and oil and gas, subsea engineering, supply chain & project management, corporate social responsibility
- Industry contact
- Team work
- Group presentations in English
- Cultural visits including reception for Mayor of Nagasaki
- Student buddies
- International experience
- We hope some fun in a safe and welcoming environment!





# Student perception

Overall learning



Technical experience



English language skills



Experience to be in Scotland & at RGU



## Tutor perception

Staff said that the students were:

- Intelligent, hard working and courteous
- Reticent at first but grew in confidence
- and that their English had improved!!

## RGU perception

Pilot approach provided good information:

- Focus programme on specific challenges or topics
- Develop English skills in advance
- Provide an induction opportunity in Japan.

Summer school is a great way to:

- Gain international experience
- Develop knowledge, team working, problem solving and critical thinking skills
- Gain access to situations outwith every day life.





It has been an honour to work with the  
Nippon Foundation and the students

**Thank you!**