

# Energy Talent Development

Briefing Information for Project Proposals



## Introduction to Programme

With the ever growing skills crisis within the Oil and Gas industry worldwide, ITF with the support of Scottish Enterprise are aiming through its **“Energy Talent Development”** initiative to increase the throughput of new talent into the Energy Sector. This will be done by establishing collaborative industry generated projects for use in postgraduate research degrees.

The objectives of this initiative are to:-

- Enhance communication and relationships between the Industry and Academia by delivering projects for Masters’ and Doctorate level research which are focused on the industry needs and requirements.
- Increase the profile of the Oil and Gas Industry and encourage new talent into the industry
- Improve the image of the Oil and Gas Industry amongst young people and inform new graduates of the exciting work being carried out in the energy sector.
- Provide a pipeline for entry into this industry for new and recent graduates through early engagement
- Enhance the talent pool of skilled personnel into the industry
- Gain a better understanding of the capabilities of academic departments

ITF will be working with our extensive list of current contacts within the academic community and we will be aiming to establish a relationship with all of the Scottish Universities that can contribute to the project by the year end. The ultimate aim is that by the end of the pilot project that this will be run out to the rest of the UK with the possibility of expanding globally in the longer term.

## Benefits to Industry Partners

Participating in this initiative will have the following benefits to your company:-

- Cost effective additional resources for you business
- Valuable route for securing additional skilled employees for your company

## Types of Project

The aim of the dissertation is for the student to develop skills in the investigation and analysis of a given problem and creativity in devising effective solutions through a detailed study of a selected topic. There are a number of different types of Masters Projects which could be undertaken, including:

- a) Literature review
- b) Theoretical
- c) Design and Build
- d) Experimental
- e) Feasibility Studies

## Areas of Interest and Targeted Courses

In this programme we are targeting any course or subject area that could be related to the Upstream Oil and Gas Industry. This can include:-

- Oil and Gas Industry focused postgraduate degrees
- Mechanical, Civil, Chemical, Process and Electrical Engineering
- Physical Sciences
- Computing and IT
- Safety and Reliability
- Earth, Marine and Environmental Science
- Surveying
- Economics
- Project management
- Any other

## Project Guidelines

Masters level project will typically last for 12 weeks with a dissertation handed in at the end of the project. The dissertation and formal supervision of the student is the responsibility of the student and the academic supervisor provided by the University.

## Requirements for Sponsor

Participating in ITF Energy Talent Development Project gives students the opportunity to work on an area of direct industry relevance while giving the sponsor the opportunity to use the skills of a graduate engineer for around three months. The responsibilities of the industry sponsor are minimal and some guidelines are given below.

- Funding or payment to the student is at the discretion of the sponsor
- Mentor guidance provided by the company (can be minimal hours)
- Can be based at the Industry establishment full-time/part-time or at the University
- That project aims are feasible in time scale allowed (around 12 weeks)

The above guidelines are generally applicable for MSc level projects but would apply to PhD projects also. The main difference in PhD level projects is that there would be a requirement for funding at some level.

## Intellectual Property

The ownership of any IPR will require agreement of the University and the company involved and will be decided prior to project starting.

## Confidentiality

If a project has company/research confidentiality issues these can be discussed prior to any formal commitment being made and if necessary a formal agreement will be signed before participating project start date.

## Project Form and Specification

If you are interested in participating in ITF's Energy Talent Development Programme please fill in the form below and email to Cristina Puig (ETD Project Manager) at [c.puig@oil-itf.com](mailto:c.puig@oil-itf.com)