GAME CHANGERS .technology

Sellafield Ltd

NPL National Physical Laboratory

GAU Radioanalytical Laboratories

NATIONAL NUCLEAR LABORATORY

Innovation in Analytical Services

Join us for a one day event where you can bring your innovative technologies and techniques to meet the challenges of the analytical services teams at Sellafield.

Tuesday 14 November 2017

at NPL, Teddington, Middlesex TW11 0LW

Innovation in Analytical Services – Supporting the Nuclear Decommissioning Mission presents challenges around specific areas of interest to Sellafield's Analytical Services teams.

The aim of the event is to introduce innovative thinking and technologies to help deliver Sellafield's decommissioning mission, with specific challenges focused on:

- **Development of existing technologies**
- **Deployment of new technologies**
- **Use of emerging computer based technologies**
- **Utilisation of new engineering materials and design philosophy**

This event is free for any business, individual or academic institution to attend and is designed to stimulate game changing thinking and welcome new technologies and innovative organisations into Sellafield's supply chain.

There's no requirement for previous experience in the nuclear sector and we welcome interest from all industries and academia.

The Game Changers programme has funding and commercialisation support available for the most promising technologies, with additional proof of concept and prototype development funding also available.

This event is hosted by the National Physical Laboratory and provides a great opportunity to discuss with Sellafield's Analytical Services teams how your technologies and innovations could be developed and deployed.

For more information and to register:

www.gamechangers.technology
www.gamechangers-analytical-services.eventbrite.co.uk

Eventbrite

gamechangers@nnl.co.uk

Event venue: National Physical Laboratory, Hampton Road, Teddington, TW11 0LW

Innovation in Analytical Services

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Sellafield's analytical services challenges

Current analytical operations at the Sellafield site take place in an aging facility using processes that were developed decades ago.

Future analytical activities will be undertaken in a new facility and will support post operational clean out, remediation and decommissioning. These activities are likely to be investigative in nature, whereas the majority of current work is predictable and in support of routine operations.

New ideas are crucial to the success of this programme and Sellafield is keen that as many innovative ideas as possible are heard, discussed and developed.

Event format.

The day will introduce personnel from the Sellafield Analytical Services Team, presenting their challenges in an interactive format, with delegates invited to contribute in discussions and bring ideas and solutions from their own industry sector and organisations.

Full challenge statements available at **www.gamechangers.technology**

Who should attend?

The event is anticipated to be of particular interest to businesses and academia in the laboratory technology sector, including instrumentation, control and automation.

We positively welcome those wishing to attend who may bring technologies and solutions from other industry sectors (oil and gas, biosciences etc) who might bring their innovations and technologies into the nuclear decommissioning arena.

Register at **www.gamechangers-analytical-services.eventbrite.co.uk**

Eventbrite

The current Analytical Services facility at Sellafield consists of 96 laboratories and numerous offices, storerooms etc.

It is the size of four football pitches and sits within the controlled area at the Sellafield site (readily accessible to plants).

A large variety of analyses in terms of sample types and chemical species are measured.

>203,000 samples are analysed per year

>270,000 analyses performed on these samples

The instrumental analytical techniques used in the department encompass a wide range of routinely used analytical techniques, including:

Mass Spectrometry

Optical Spectrometry

X-Ray

Chromatography

Polarography

Titrimetric techniques and a range of radiometric applications.

It is intended that the new NNLCL facility should provide the site's analytical service until at least 2035.

Event partners.

NPL National Physical Laboratory

GAU Radioanalytical Laboratories

Programme delivery partners.

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FIS360 innovation to revenue

This scheme is funded and supported by Sellafield Ltd