

Innovation in Analytical Services

– Supporting Sellafield's Nuclear Decommissioning Mission

A one-day event at the National Physical Laboratory, Teddington, Middlesex on Tuesday 14 November, 2017.

In collaboration with the National Physical Laboratory and GAU Radioanalytical, Game Changers announce a one day 'challenge' event where organisations can bring their innovative techniques, technologies and solutions to meet the challenges faced by Sellafield's Analytical Services teams.

The Analytical Services Challenge Event is being held at the National Physical Laboratory in Teddington, Middlesex on Tuesday 14 November, 2017.

Game Changers programme lead, Adrian Davis-Johnston: "We are delighted to announce this event, the third in 2017 from the Game Changers initiative and following on from the hugely successful innovation events at Nuclear AMRC, Rotherham, in January and the digital and smart technologies day at the Museum of Science and Industry, Manchester, in April."

At present, analytical operations take place at Sellafield in a facility that is over 50 year's old and uses processes that were developed 30 to 40 years ago.

The current laboratory is being phased-out and the majority of the future work will be performed in the National Nuclear Laboratory Central Lab, a facility which is being significantly re-fitted to meet this demand.

This presents a great opportunity for new and innovative technologies and techniques to be introduced in support of the Analytical Services teams.

Dr Mike Edmondson, Sellafield Ltd, said: "An Analytical Hierarchy has been developed to direct future analytical operations and associated research and development; it was produced with an understanding of recent advancements in the nuclear analytical arena."

"The principles prescribed in the Hierarchy are being used to direct the analytical development work for the new laboratory, but there will be new emerging technologies that have the potential to radically change the approach to analysis that Sellafield may be oblivious to."

The focus of the event will introduce personnel from Sellafield's Integrated Research Teams, presenting specific challenges at interactive presentations and workshops. "These sessions are a great opportunity for delegates to discuss the challenges first-hand with Sellafield staff. It's an approach which saw great interaction at previous events with everyone benefitting from the informal 'open floor' format."

The challenges being presented are as follows:

- **Challenge AS1** : Development of existing techniques to further implement, underpin and deliver the Analytical Hierarchy.
- **Challenge AS2** : Development of new techniques to further implement, underpin and deliver the Analytical Hierarchy.
- **Challenge AS3** : Utilise recent development in IT, computing and energy storage technology to transform the analytical operations.
- **Challenge AS4** : Develop new design solutions for Analytical Services facilities to improve efficiency and operability at reduced cost.

Dr Edmondson continues: "New ideas are crucial to the success of any business and Sellafield Ltd are no different, so we are very keen that as many ideas as possible are heard, discussed and developed."

Who should attend this event?

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

Game Changers and Sellafield Ltd welcome interest from organisations operating in other sectors (oil and gas, biosciences, aerospace etc) who might bring their innovations and technologies into the nuclear decommissioning arena.

Further event details are available at www.gamechangers.technology along with more [detailed challenge statements](#) and information on how to apply to the Game Changers programme.

Please register your place via Eventbrite at:

<https://gamechangers-analytical-services.eventbrite.co.uk>

Ends.

Notes for Editors.

What is the Game Changers programme?

Working in collaboration with Sellafield Ltd, we are inviting proposals for new ideas and technologies which can reduce costs, reduce risk and make operations safer whilst accelerating the safe delivery of decommissioning.

Sellafield Ltd actively seek to engage businesses (including large corporations and SMEs), academia and individuals who can bring their innovative technologies and solutions into the nuclear arena to help accelerate the decommissioning programme whilst also reducing costs and upholding our commitment to human and environmental safety.

The programme is delivered by the National Nuclear Laboratory and commercialisation specialists FIS360.

Applications to the Game Changers programme, if considered suitable for further assessment, are awarded £5,000 to formulate their business case and receive commercialisation support before submitting their 'poster' presentations to Sellafield Ltd and an awarding panel.

Any applications progressing from here may be eligible for further proof of concept and prototype development funding from Sellafield Ltd.

To date, over 120 applications to Game Changers have received £5,000 funding with with 5 of these progressing to further proof of concept funding, each showing great potential for future deployment at the Sellafield site.

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